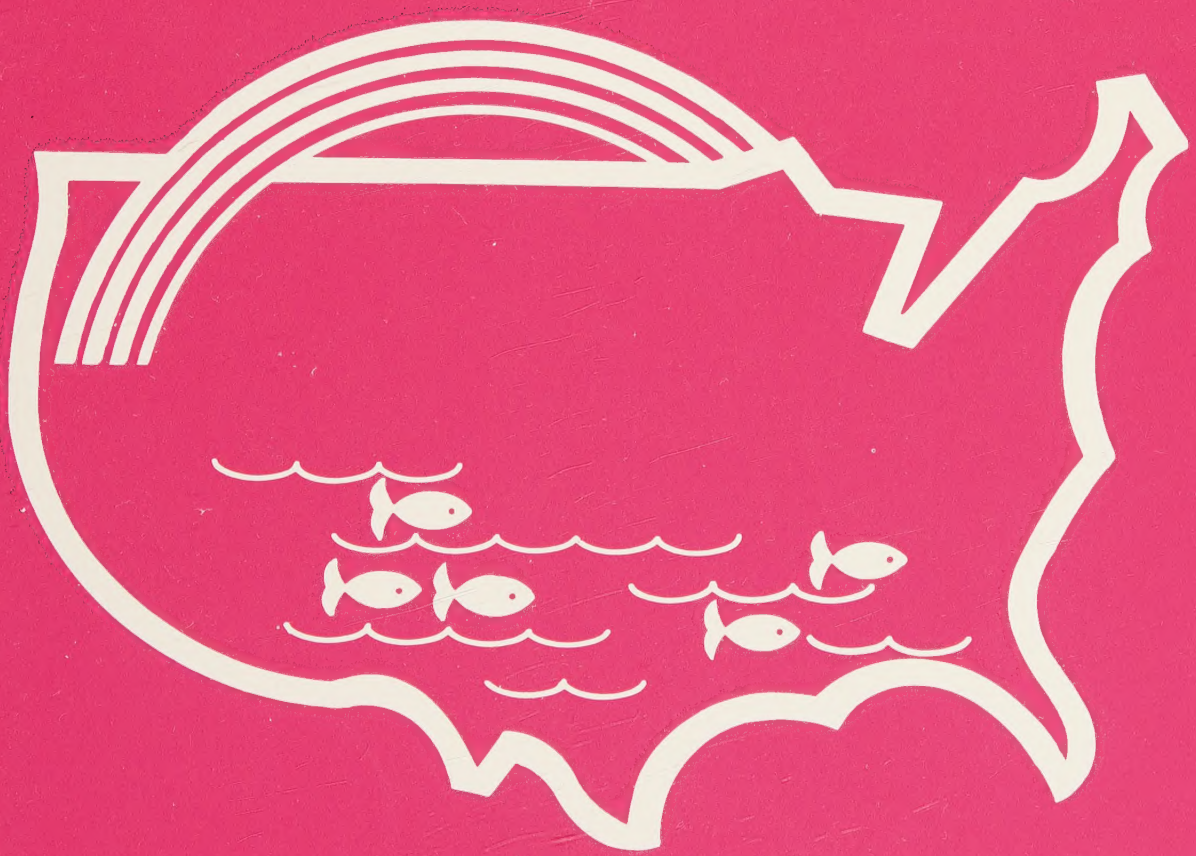
Current Fishery Statistics No. 8800

Fisheries of the United States 1988

May 1989



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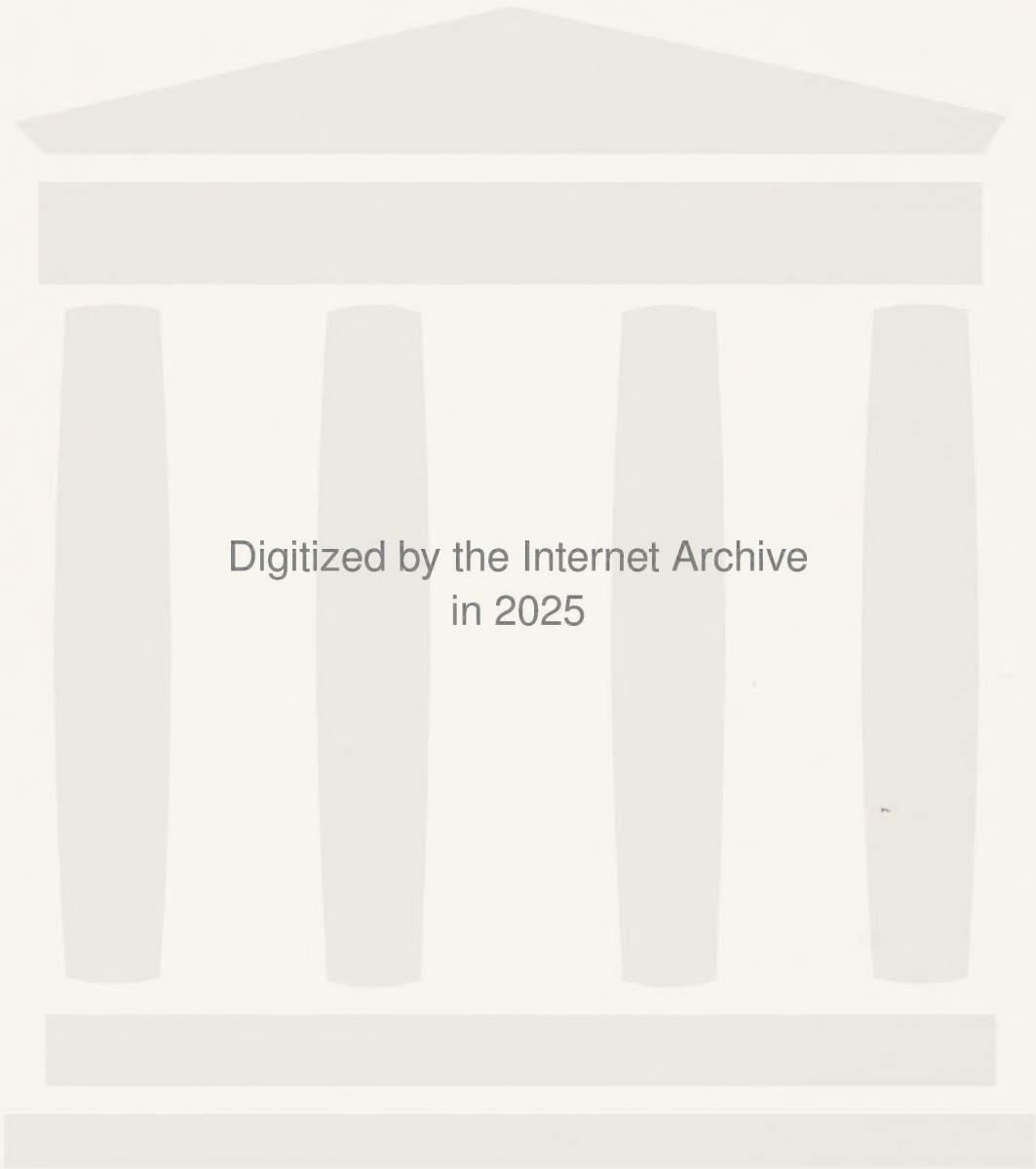
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Current Fishery Statistics No. 8800

Fisheries of the United States, 1988

Prepared by:
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Washington, D.C.
May 1989

U.S. DEPARTMENT OF COMMERCE
Robert A. Mosbacher, Secretary
National Oceanic and Atmospheric Administration
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Fisheries Statistics Division

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PREFACE

FISHERIES OF THE UNITED STATES, 1988

This publication is a preliminary report for 1988 on commercial and recreational fisheries of the United States and foreign catches in the U.S. Exclusive Economic Zone (EEZ). This annual report provides timely answers to frequently asked questions for the previous year.

SOURCES OF DATA

Information in this report came from many sources. Field offices of the National Marine Fisheries Service (NMFS), in cooperation with various States, collected and compiled data on U.S. commercial landings and processed fishery products. The NMFS field offices compiled data on the foreign catch from reports submitted by designated foreign officials. The NMFS Fisheries Statistics Division in Silver Spring, MD, managed the collection and compilation of recreational statistics, and tabulated and prepared all data for publication. Sources of other data appearing in this publication are: U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Coast Guard, U.S. Customs Service, U.S. Department of the Interior, U.S. Department of Agriculture, Food and Agriculture Organization (FAO) of the United Nations (Rome), and the countries fishing in the U.S. EEZ.

PRELIMINARY AND FINAL DATA

Data on U.S. commercial and recreational landings, foreign catches, employment, prices, and production of processed products are preliminary for 1988. Final data will be published in Fishery Statistics of the United States and other NMFS Current Fishery Statistics publications.

DEFINITIONS - (See Glossary)

As in past issues of this publication, the units of quantity and value are defined as follows: U.S. landings and foreign catch are shown in round weight (mollusk shells excluded), unless otherwise noted; quantities shown for U.S. imports and exports are in product weight, as reported by the U.S. Bureau of the Census, unless otherwise noted; the value of the U.S. domestic commercial catch is exvessel; the value for U.S. imports is generally the market value in the foreign (exporting) country and, therefore, excludes U.S. import duties, freight charges from the foreign country to the United States, and insurance; the value for exports is generally the value at the U.S. port of export, based on the selling price, including inland freight, insurance, and other charges. Countries and territories shown in the U.S. foreign trade section are established for statistical purposes in the Tariff Schedules of the United States Annotated (Tariff Commission) and reported by the U.S. Bureau of the Census.

SUGGESTIONS

The Fisheries Statistics Division wishes to provide the kinds of data sought by users of fishery statistics, and welcomes any comments or suggestions that will improve this publication.

Address all comments or question to:

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ACKNOWLEDGEMENT

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Program leaders of the field offices were: Ronnee Schultz and Robert A. Hall, New England, Middle Atlantic, Chesapeake and Great Lakes States; Richard Raulerson and Ernest Snell, South Atlantic and Gulf States; Patricia J. Donley, California and Hawaii; John K. Bishop, Oregon and Washington; and Jessica Gharrett, Alaska.

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REVIEW

IMPORTANT FACTS

U.S. LANDINGS. Commercial landings (edible and industrial) by U.S. fishermen at ports in the 50 states were a record 7.2 billion pounds (3.3 million metric tons) valued at $3.5 billion in 1988--an increase of 296.8 million pounds (134,600 metric tons) in quantity, and an increase of $405.5 million in value compared with 1987. Landings of major finfish species such as Atlantic and Pacific cod, flounders, Alaska pollock, salmon and tuna increased. The 1988 average exvessel price per pound paid to fishermen of 49 cents was slightly above the 45 cents they received in 1987. Finfish accounted for 82 percent of total landings but only 57 percent of the total value of finfish and shellfish.

Commercial landings by U.S. fishermen at ports outside the 50 states or transferred in the U.S. Exclusive Economic Zone (EEZ) onto foreign vessels (joint ventures) were an additional 3.8 billion pounds (1.7 million metric tons) valued at $489.8 million. This was a 5 percent, or 209.2 million pound (94,900 metric tons), decrease in quantity and a $47.6 million (11 percent) increase in value compared with 1987. Most of these landings consisted of tuna landed at canneries in Puerto Rico, American Samoa and other foreign ports and joint venture catches of Alaska pollock.

Edible fish and shellfish landings in the 50 states were 4.6 billion pounds (2.1 million metric tons) in 1988--an increase of 642.0 million pounds (291,200 metric tons) compared with 1987. Landings of shrimp and clams decreased, but there were increases in Alaska pollock, crabs, Atlantic and Pacific cod, flounders, salmon and tuna.

Landings for reduction and other industrial purposes were 2.6 billion pounds (1.2 million metric tons) in 1988--a decrease of 12 percent compared with 1987.

JOINT VENTURE CATCH IN THE U.S. EEZ. Joint venture catches by U.S. fishermen unloaded onto foreign vessels were 3.2 billion pounds (1.5 million metric tons) valued at $221.1 million. This was a 3 percent decrease in quantity over 1987, when 3.3 billion pounds (1.5 million metric tons) were caught, valued at $202.1 million. The major species were cod, flounders Pacific hake, and Alaska pollock.

FOREIGN CATCH IN U.S. EEZ. The foreign catch of fish (excluding tunas) and shellfish in the U.S. EEZ was 61,600 metric tons (135.8 million pounds) in 1988, a 59 percent decrease compared with 1987 and 93 percent below the average for the preceding 5 years. The U.S. EEZ catch off the North Atlantic supplied the largest share of foreign catch (70 percent) followed by California, Oregon and Washington (30 percent). There were no foreign catches in the U.S. EEZ off Alaska in 1988.

Atlantic mackerel comprised 70 percent of the foreign catch; Pacific hake, 29 percent; and other fish and shellfish the remainder.

Poland was the leading nation fishing in the U.S. EEZ with a catch of 28.1 thousand metric tons, 46 percent of the total foreign catch. The German Democratic Republic was the second leading nation fishing in the U.S. EEZ, with 21.1 thousand metric tons representing 34 percent of the catch in 1988.

The 1988 foreign catch in the Pacific U.S. EEZ was 18,300 metric tons, 32,100 metric tons (64 percent) less than 1987. Pacific whiting, 18,000 metric tons (98 percent of the total), was the leading species followed by rockfishes, 149.1 metric tons (1 percent). Poland was the only country fishing in the California, Oregon, and Washington area in 1988.

Foreign catches in the North Atlantic U.S. EEZ in 1988 were 43,300 metric tons, 13,700 metric tons (46 percent) more than the 1987 catch of 29,500 metric tons. The German Democratic Republic had the highest catch with 21,100 metric tons (49 percent), followed by the Netherlands with 12,400 metric tons (29 percent). Atlantic mackerel catches amounted to 42,900 metric tons (99 percent).

U.S. VS. FOREIGN CATCH IN U.S. EEZ. The combined catch by U.S. and foreign vessels in the U.S. EEZ was 3.0 million metric tons in 1988, similar to 1987. However, the U.S. share was 93 percent of the total, down 2 percentage points from 1987.

WORLD LANDINGS. In 1987, the most recent year for which data are available, world commercial fishery landings were a record 93.0 million metric tons--an increase of 631,000 metric tons (1 percent) compared with 1986. Japan continued to be the leading nation with 13 percent of the total catch; the USSR, second with 12 percent; China, third with 10 percent; followed by the United States with 6 percent; and Chile with 5 percent.

PRICES. The procedure for calculating the Index of Exvessel Prices for all fish and shellfish was reviewed and modified in 1986. The index has been recalculated with a new market basket and 1986 as the base year. The 1988 annual exvessel price index for edible fish and shellfish increased 31 percent from 1987. The annual index for industrial fish decreased 2 percent from 1987.

PROCESSED PRODUCTS. The 1988 estimated value of the domestic production of edible and nonedible fishery products was $5.4 billion, $582.5 million (10 percent) less than the $6.0 billion in 1987. The value of edible products was $5.0 billion--a decrease of

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$613.5 million (11 percent) compared with 1987. The value of industrial products was $328.3 million in 1988--an increase of $31.0 million (10 percent) compared with 1987.

FOREIGN TRADE. The total import value of edible and nonedible fishery products was a record $8.9 billion in 1988--an increase of $54.3 million (1 percent) compared with 1987. Imports of edible fishery products (product weight) were 3.0 billion pounds (1.3 million metric tons) valued at $5.5 billion in 1988--a decrease of 230.2 million pounds (7 percent) in quantity and $251.8 million (4 percent) in value compared with 1987. Imports of nonedible (industrial) products also set a value record in 1988, with products valued at $3.4 billion--an increase of $306.1 million (10 percent) compared with 1987.

Total export value of edible and nonedible fishery products of domestic origin was a record $2.3 billion in 1988--an increase of $614.2 million (37 percent) compared with 1987. United States firms exported 1.1 billion pounds (482,500 metric tons) of edible products valued at $2.2 billion--an increase of 280.9 million pounds (127,400 metric tons) in quantity and $584.0 million in value compared with 1987. Exports of nonedible products were valued at $113.0 million, $30.2 million more than 1987. The $221.1 million received for U.S.-flag vessel catches transferred onto foreign vessels in the U.S. EEZ in joint venture operations are not included in the export statistics.

SUPPLY. The U.S. supply of edible fishery products (domestic landings plus imports, round weight equivalent) was 10.5 billion pounds (4.8 million metric tons) in 1988--a decrease of 56.0 million pounds (1 percent) compared with the record supply in 1987. The change reflects a decrease of 11 percent in imports and an increase of 16 percent in domestic commercial landings. The supply of industrial fishery products was 4.1 billion pounds (1.9 million metric tons) in 1988--a decrease of 1.1 billion pounds (20 percent) compared with 1987. Domestic commercial landings for industrial products of 2.6 billion pounds (1.2 million metric tons) were 597.0 million pounds less than the record of 3.2 billion pounds set in 1983.

PER CAPITA CONSUMPTION. U.S. consumption of fishery products was 15.0 pounds of edible meat per person in 1988, down 0.4 pound from 1987.

CONSUMER EXPENDITURES. U.S. consumers spent an estimated $28.8 billion for fishery products in 1988. The total includes $19.7 billion in expenditures in food service establishments (restaurants, carry-outs, caterers, etc.); $8.9 billion in retail stores (for home consumption); and $214.0 million for industrial fish products. In producing and marketing a variety of fishery products for domestic and foreign markets, the commercial marine fishing industry contributed $17.0 billion (in value added) to the U.S. Gross National Product (GNP).

The estimates of consumer expenditures and industry contribution to GNP are derived from a model developed for NMFS. The model replaces an earlier version which was the basis for estimates last published in "Fisheries of the U.S., 1982." The latter estimates were for 1981 and showed $13.5 billion in consumer expenditures on fishery products, and a $7.6 billion industry contribution to GNP.

OTHER IMPORTANT FACTS

Menhaden, with landings of 2.1 billion pounds (946.2 million metric tons), was the most important species in quantity in 1988, accounting for 29 percent of the commercial fishery landings in the United States, but was low in value.

Pollock was the second most important species in quantity and low in value.

Salmon was the third most important in quantity and first in value.

Crabs were fourth in quantity, and third in value.

Cod was the fifth most important in quantity and low in value.

Shrimp were sixth in quantity and second in value.

Lobster and scallops were the fourth and fifth most important species in value, respectively.

Tuna landings by U.S.-flag vessels at ports outside the continental United States amounted to 498.0 million pounds. Other species landed at ports outside the United States were Atlantic squid and mackerel, and Pacific groundfish, transferred on to foreign vessels in the U.S. EEZ.

Cameron, Louisiana, was the leading U.S. port in quantity of commercial fishery landings, followed by Dutch Harbor-Unalaska and Kodiak, Alaska; Empire-Venice, Louisiana; Pascagoula-Moss Point, Mississippi; and Dulvac-Chauvin, Louisiana. Menhaden was the principal species landed at Cameron.

Kodiak, Alaska was the leading U.S. port in terms of value, followed by New Bedford, Massachusetts; Dutch Harbor-Unalaska and Kenai, Alaska; Empire-Venice, Louisiana and Petersburg, Alaska.

Alaska led all states in volume with landings of 2.6 billion pounds, followed by Louisiana, 1.4 billion; Virginia, 650.8 million; California, 495.6 million; and Mississippi, 336.4 million pounds.

Alaska led all states in value with $1.3 billion, followed by Louisiana, $317.3 million; Massachusetts, $274.0; California, $199.3; and Texas, $175.7 million.

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ALASKA POLLOCK AND OTHER PACIFIC TRAWL FISH. U.S. landings of Pacific trawl fish (Pacific cod, flounders, Pacific hake (whiting), Pacific ocean perch, Alaska pollock, and rockfishes) were 1.8 billion pounds valued at $210.1 million--an increase of 80 percent in quantity compared with 1987.

Landings of Alaska pollock increased 128 percent to 1.3 billion pounds, more than seven times higher than the 5-year average. Landings of Pacific cod were 267.2 million pounds -- an increase of 57 percent from 170.6 million pounds in 1987. Pacific hake (whiting) landings were 15.7 million pounds (down 59 percent) valued at $1.2 million (down 39 percent) compared with 1987. The 1988 landings of Pacific hake were well below the 5-year average. Landings of rockfishes were 124.0 million pounds (5 percent lower than 1987) valued at $38.7 million. However, the 1988 landings were 30 percent higher than the 5-year average.

ANCHOVIES. U.S. landings of anchovies were 12.4 million pounds--a decrease of 432,000 pounds (3 percent) compared with 1987. Almost all the landings were used for bait, while less than one percent went into animal food.

HALIBUT. U.S. landings of Atlantic and Pacific halibut were 81.6 million pounds (round weight) valued at $72.7 million--an increase of 5.5 million pounds (7 percent), but a decrease of $15.5 million (18 percent) in value compared with 1987. The Pacific fishery accounted for all but 173,000 pounds of the 1988 total catch. The average exvessel price per pound in 1988 was 89 cents compared with $1.16 in 1987.

HERRING, SEA. U.S. commercial landings of sea herring were 221.8 million pounds valued at $62.7 million--an increase of 14.7 million pounds (7 percent) in quantity and an increase of $10.4 million (20 percent) in value compared with 1987. Landings of Atlantic sea herring increased to 90.4 million pounds valued at $5.2 million--an increase of 5.9 million pounds (7 percent) in quantity and $861,000 (20 percent) in value compared with 1987.

Landings of Pacific sea herring were 131.4 million pounds valued at $57.4 million--an increase of 8.8 million pounds (7 percent) in quantity and an increase of $9.5 million (20 percent) in value compared with 1987. Alaskan landings were 113.8 million pounds valued at $60.0 million --an increase of 11.5 million pounds (11 percent) and $9.2 million (22 percent) compared with 1987.

JACK MACKEREL. Landings of jack mackerel in 1988 were 22.5 million pounds valued at $1.7 million--a decrease of 4.1 million pounds (15 percent) in quantity and $146,000 in value compared with 1987. Landings continued to be below the 5-year average. The 1988 average exvessel price per pound was 7 cents.

MACKEREL, ATLANTIC. U.S. landings of Atlantic mackerel were 14.8 million pounds valued at $2.0 million--an increase of 4.8 million pounds (49 percent) in quantity and $897,000 in value (84 percent) compared with 1987. New Jersey was the leading state for the eighth consecutive year with 8.2 million pounds (55 percent) of the total catch). The average exvessel price per pound in 1988 was 13 cents, up 2 cents from 1987.

MACKEREL, PACIFIC. Landings of Pacific mackerel were 100.3 million pounds valued at $7.5 million--an increase of 6.6 million pounds (7 percent) in quantity and $1.1 million (17 percent) in value compared with 1987. The average exvessel price remained stable at about 7 cents per pound.

MENHADEN. The U.S. menhaden landings were 2.1 billion pounds valued at $105.7 million--a decrease of 626.2 million pounds (23 percent) in quantity, but an increase of $1.3 million (1 percent) in value compared with 1987. Landings decreased by 34.5 million pounds (5 percent) in the Atlantic States and 591.7 million pounds (30 percent) in the Gulf States compared with 1987. Landings along the Atlantic coast were 677.9 million pounds valued at $32.4 million. Gulf region landings were 1.4 billion pounds valued at $73.3 million. Menhaden are used primarily for the production of meal, oil, and solubles. Small quantities are used for bait and canned pet food.

NORTH ATLANTIC TRAWL FISH. North Atlantic landings of butterfish, Atlantic cod, cusk, flounder (blackback, fluke, yellowtail and other), haddock, red and white hake, ocean perch, pollock and whiting (silver hake) were 265.9 million pounds valued at $184.4 million--a decrease of 7.5 million pounds (3 percent) in quantity and a decrease of $29.3 million (14 percent) in value compared with 1987. Of these species, flounders led in value, accounting for 57 percent of the total; followed by Atlantic cod, 23 percent; and pollock, 6 percent.

The 1988 landings of Atlantic cod were 76.1 million pounds valued at $42.9 million--an increase of 17.0 million pounds (29 percent), but a decrease of $1.2 million (3 percent) in value compared with 1987. The exvessel price per pound was 56 cents per pound in 1988 compared with 75 cents per pound in 1987.

Landings of yellowtail flounder declined for the fifth consecutive year to 11.1 million pounds, a

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decrease of 5.6 million pounds from 1987 and 68 percent below the 5-year average.

Haddock landings are near historic lows, declining in 1988 to 6.4 million pounds (down 4 percent from 1987). Value decreased to $7.0 million (down 18 percent from 1987).

The North Atlantic pollock landings were 33.1 million pounds in 1987 valued at $11.1 million, a decrease of 12.6 million pounds (28 percent) in quantity and $6.8 million (38 percent) in value compared with 1987.

PACIFIC SALMON. U.S. commercial landings of salmon were 606.1 million pounds valued at $910.7 million--an increase of 44.1 million pounds (8 percent) in quantity and $314.3 million (53 percent) in value compared with 1987. Alaska accounted for 87 percent of the total landings; Washington, 8 percent; Oregon and California, 5 percent; landings of 93,000 pounds of silver salmon were taken from the Great Lakes. Red salmon landings were 190.0 million pounds valued at $437.6 million, a decrease of 37.4 million pounds (16 percent) in quantity, but an increase of $77.9 million (22 percent) in value compared with 1987. King salmon landings increased to 45.7 million pounds--up 5.7 million pounds (14 percent) from 1987. Pink salmon landings of 176.5 million pounds in 1988 increased by 7.2 million pounds (4 percent); chum salmon, 146.5 million pounds, increased 60.1 million pounds (70 percent); and silver salmon, 47.5 million pounds, increased 8.4 million pounds (22 percent) compared with 1987.

Alaska landings of 526.4 million pounds valued at $744.9 million were an increase of 37.0 million pounds (8 percent) in quantity and an increase of $271.9 million (57 percent) in value compared with 1987. The distribution of Alaska salmon landings by species in 1988 was: sockeye 184.7 million pounds (35 percent); pink, 176.5 million pounds (34 percent); chum, 121.5 million pounds (23 percent), coho, 33.1 million pounds (6 percent), and chinook, 10.6 million pounds (2 percent). The exvessel price per pound for all species in Alaska was $1.41 in 1988, up 44 cents from 1987.

Washington salmon landings were 47.4 million pounds valued at $85.5 million--a decrease of 1.5 million pounds (3 percent) in quantity, but an increase of $14.2 million (20 percent) in value compared with 1987. The biennial fishery for pink salmon went from 9.6 million pounds in 1987 to 1,000 pounds in 1988. Washington landings of chum salmon were 24.9 million pounds--up 17.0 million pounds (213 percent), followed by chinook, 8.9 million pounds (up 17 percent), silver, 8.3 million pounds (down 30 percent), and red, 5.3 million pounds (down 56 percent) compared with 1987.

The average exvessel price per pound for all species in Washington went from $1.46 in 1987 to $1.80 in 1988.

Oregon salmon landings were 17.5 million pounds valued at $38.4 million--an increase of 3.1 million pounds (22 percent) in quantity and $11.9 million (45 percent) in value compared with 1987. Landings of chinook salmon increased to 11.7 million pounds (up 5 percent); silver, 5.7 million pounds (up 86 percent); red, 65,000 pounds (down 48 percent); and chum, 14,000 pounds (up 50 percent) compared with 1987. The average exvessel price per pound for all species in Oregon increased from $1.84 in 1987 to $2.20 in 1988.

California salmon landings were 14.7 million pounds valued at $41.9 million--an increase of 5.4 million pounds (58 percent) in quantity and $16.3 million (64 percent) compared with 1987. Chinook salmon landings were 14.4 million pounds valued at $41.2 million--an increase of 5.4 million pounds (60 percent) in quantity and $16.1 million (64 percent in value compared with 1987. Landings of silver salmon increased to 320,000 pounds (up 30 percent) in quantity and $707,000 (up 44 percent) in value compared with 1987. The average exvessel price per pound paid to fishermen for all species in 1988 was $2.84 compared with $2.75 in 1987.

SABLEFISH. U.S. commercial landings of sablefish were 107.5 million pounds valued at $91.8 million--an increase of 4.8 million pounds (5 percent) in quantity, and $33.7 million (58 percent) in value compared with 1987. Landings increased in Alaska to 82.8 million pounds (up 12 percent) compared with 1987. Landings decreased in Washington to 7.3 million pounds (down 4 percent), in Oregon to 9.1 million pounds (down 22 percent), and in California to 8.3 million pounds (down 13 percent) compared with 1987. The average exvessel price per pound in 1988 was 85 cents compared with 57 cents in 1987.

TUNA. Landings of tuna by U.S. fishermen at ports in the 50 United States, Puerto Rico, American Samoa, other U.S. territories, and foreign ports were 609.3 million pounds valued at $380.5 million--a decrease of 16.9 million pounds (3 percent) in quantity but an increase of $59.1 million (18 percent) in value compared with 1987. The average exvessel price per pound of all species of tuna in 1988 was 62 cents compared with 51 cents in 1987.

Bigeye landings were 5.4 million pounds--an increase of 2.0 million pounds (58 percent) compared with 1987. The average exvessel price per pound was $2.78 in 1988 compared with $2.76 in 1987.

Skipjack landings were 300.0 million pounds--an increase of 69.8 million pounds (30 percent)

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compared with 1987. The average exvessel price per pound was 50 cents in 1988 compared with 39 cents in 1987.

Yellowfin landings were 280.3 million pounds--a decrease of 97.2 million pounds (26 percent) compared with 1987. The average exvessel price per pound was 65 cents in 1988 compared with 52 cents in 1987.

Bluefin landings were 3.7 million pounds--a decrease of 600,000 million pounds (14 percent) compared with 1987. The average exvessel price per pound in 1988 was $4.62 compared with $3.80 in 1987.

CLAMS. Landings of all species yielded 131.7 million pounds of meats valued at $134.8 million--a decrease of 2.6 million pounds (2 percent) in quantity, but an increase of $1.9 million (1 percent) in value compared with 1987. The average exvessel price per pound increased to $1.02 in 1988 from 99 cents in 1987.

Surf clams yielded 63.5 million pounds of meats valued at $29.2 million--an increase of 2.8 million pounds (5 percent) in quantity, and $1.2 million (4 percent) in value compared with 1987. New Jersey was the leading State with 37.2 million pounds (up 4 percent) from 1987, followed by Virginia, 10.6 million pounds (up 22 percent); Maryland, 6.9 million pounds (down 10 percent); Massachusetts, 4.5 million pounds (up 7 percent); and New York, 2.9 million pounds (up 2 percent). The average exvessel price per pound of meats was 46 cents in 1988, the same as 1987.

The ocean quahog fishery produced 46.3 million pounds of meats valued at $14.9 million--a decrease of 3.9 million pounds (8 percent) in quantity, and $1.7 million (10 percent) in value compared with 1987. New Jersey was the leading producer with 17.5 million pounds of meats accounting for 38 percent of the total ocean quahog landings. The value for New Jersey in 1988 was $5.0 million--a decrease of $1.9 million (27 percent) compared with 1987. Maryland landings were 11.6 million pounds valued at $3.3 million--a decrease of 734,000 pounds (6 percent) in quantity and $369,000 (10 percent) in value compared with 1987. The average exvessel price per pound of meats was 32 cents in 1988, compared with 33 cents in 1987.

The hard clam fishery produced 12.4 million pounds of meats valued at $67.8 million--an increase of 953,000 pounds (8 percent) in quantity and $18.2 million (37 percent) in value compared with 1987. Landings in the New England region were 4.2 million pounds of meats (down 22 percent); Middle Atlantic region, 4.2 million (down 3 percent); Chesapeake region, 1.3 million pounds (up 30 percent); and the South Atlantic region, 1.6 million pounds (down 27 percent). The average exvessel price per pound of meats increased from $4.34 in 1987 to $5.48 in 1988.

Soft clams yielded 6.8 million pounds of meats valued at $18.7 million--a decrease of 655,000 pounds (9 percent) in quantity, and $1.1 million (5 percent) in value compared with 1987. Maryland was the leading State with 3.0 million pounds of meats (down 3 percent from 1987), followed by Maine with 2.3 million pounds (down 14 percent) and Massachusetts with 1.2 million pounds (down 1 percent). The average exvessel price per pound of meats was $2.75 in 1988 compared with $2.65 in 1987.

CRABS. Landings of all species of crabs were 455.6 million pounds valued at $383.6 million--an increase of 69.3 million pounds (18 percent) in quantity and $61.7 million (19 percent) in value compared with 1987. Total landings of all crab species, except king crab, increased in 1988.

Hard blue crab landings were 218.7 million pounds valued at $84.4 million--an increase of 20.8 million pounds (11 percent) in quantity and $13.6 million (19 percent) in value compared with 1987. Hard blue crab landings in the Chesapeake region of 77.7 million pounds increased 2.1 million pounds (3 percent), and the South Atlantic region landings of 54.2 million pounds increased by 7.0 million pounds (15 percent). The Gulf region, with 77.8 million pounds, increased 10.2 million pounds (15 percent). The Middle Atlantic region landings of 8.9 million pounds valued at $4.1 million increased 1.6 million pounds (22 percent) in quantity and $1.3 million (49 percent) in value compared with 1987. The average exvessel price per pound of hard blue crabs was 39 cents in 1988 compared with 36 cents in 1987.

Dungeness crab landings were 47.4 million pounds valued at $54.8 million--an increase of 18.0 million pounds (61 percent) in quantity and $16.3 million (42 percent) in value compared with 1987. Washington led all States with landings of 18.1 million pounds (38 percent of the total landings)--an increase of 10.6 million pounds (142 percent) compared with 1987. Alaska increased in landings with 10.3 million pounds, up 10 percent compared with 1987. Oregon landings were 9.4 million pounds, up 57 percent compared with 1987. California increased in landings with 9.7 million pounds (up 45 percent from 1987). The average exvessel price per pound was $1.15 in 1988 compared with $1.31 in 1987.

U.S. landings of king crab were 21.0 million pounds valued at $84.2 million--a decrease of 8.1 million pounds (28 percent) compared with 1987. The average exvessel price per pound in 1988 was $4.01 compared with $3.40 in 1987.

IMPORTANT SPECIES

Snow (tanner) crab landings were 146.3 million pounds valued at $137.1 million--an increase of 32.5 million pounds (29 percent) in quantity and $38.4 million (39 percent) in value compared with 1987. The average exvessel price per pound was 94 cents in 1988, up from 87 cents in 1987.

LOBSTERS, AMERICAN. American lobster landings were 48.6 million pounds valued at $145.2 million--an increase in quantity of 3.1 million pounds (7 percent) and an increase in value of $11.7 million (9 percent) compared with 1987. Maine led in landings for the seventh consecutive year, with 21.7 million pounds valued at $60.7 million -- up 2.0 million pounds (10 percent) from 1987. Massachusetts, the second leading producer, had landings of 15.5 million pounds valued at $47.3 million, an increase of 380,000 pounds (3 percent) compared with 1987. These two states combined to produce 76 percent of the total national landings. The average exvessel price per pound was $2.99 in 1988 compared with $2.93 in 1987.

LOBSTERS, SPINY. U.S. landings of spiny lobster were 7.2 million pounds valued at $23.0 million--an increase of 1.4 million pounds (25 percent) in quantity and $1.7 million (8 percent) in value compared with 1987. Florida, with landings of 5.4 million pounds valued at $15.5 million, accounted for 75 percent of the total catch and 67 percent of the value. This was an increase of 592,000 pounds (12 percent) in quantity, but a decrease of $1.2 million (7 percent) in value compared with 1987. Overall the average exvessel price per pound was $3.21 in 1988 compared with $3.70 in 1987.

OYSTERS. U.S. oyster landings yielded 31.9 million pounds of meats valued at $78.5 million--a decrease of 7.9 million pounds (20 percent) in quantity and $13.9 million (15 percent) in value compared with 1987. The Gulf region (principally Louisiana with 80 percent of the region's total volume) led in production with 16.3 million pounds of meats, 51 percent of the national total; followed by the Pacific region with 8.0 million pounds (25 percent), and the Chesapeake region, with 5.0 million pounds (16 percent). The average exvessel price per pound of meats was $2.46 in 1988 compared with $2.32 in 1987.

SHRIMP. U.S. landings of shrimp were 330.9 million pounds valued at $506.0 million--a decrease of 32.3 million pounds (9 percent) in quantity, and $72.0 million (12 percent) in value compared with 1987. Shrimp landings decreased in New England (down 54 percent) and the Gulf coast (down 12 percent), but increased in the South Atlantic (up 6 percent) and the Pacific (up 3 percent), when compared with 1987. The average exvessel price per pound of shrimp decreased to $1.53 in 1988 compared with $1.59 in 1987. Gulf region landings were 225.8 million pounds compared with 257.1 million pounds in 1987. Louisiana led all Gulf States with 103.2 million pounds (down 11 percent), followed by Texas, 78.1 million pounds (down 16 percent); Florida (west coast), 15.8 million pounds (down 15 percent); Mississippi, 14.4 million pounds (up 12 percent); and Alabama, 14.3 million pounds (down 16 percent). Oregon was the third leading State with landings of 41.8 million pounds (down 6 percent), and Washington landings were 18.4 million pounds, up 14 percent compared with 1987.

SCALLOPS. U.S. landings of all species of scallops were 43.0 million pounds of meats valued at $144.1 million--an increase of 2.2 million pounds (5 percent) in quantity, but a decrease of $192,000 (less than 1 percent) in value compared with 1987. The average exvessel price per pound of meats decreased from $3.54 in 1987 to $3.35 in 1988.

Bay scallop landings were 569,000 pounds of meats valued at $3.4 million--a decrease of 111,000 pounds (2 percent) in quantity, but an increase $225,000 (8 percent) in value compared with 1987. Massachusetts was the leading state with 530,000 pounds of meats, 93 percent of the national total. The average exvessel price per pound of meats was $6.00 in 1988 compared with $5.45 in 1987.

Sea scallop landings were 30.6 million pounds of meats valued at $128.2 million--a decrease of 1.5 million pounds (4 percent) in quantity and $4.0 million (3 percent) in value compared with 1987. Massachusetts was the leading state in landings of sea scallops with 16.7 million pounds of meats, 55 percent of the national total. The average exvessel price per pound of meats in 1988 was $4.20 compared with $4.13 in 1987.

Landings of calico scallops were 11.9 million pounds of meats valued at $12.5 million--an increase of 3.7 million pounds (46 percent) in quantity and $3.6 million (40 percent) in value compared with 1987. Florida (east coast) had 93 percent of the total landings in 1988. The average exvessel price per pound of meats was $1.05 in 1988 compared with $1.09 in 1987.

SQUID. U.S. commercial landings of squid were 127.2 million pounds valued at $23.9 million--an increase of 45.1 million pounds (55 percent) and $7.1 million (42 percent) compared with 1987. California was the leading state with 80.4 million pounds, 63 percent of the national total.

The New England region landings were 27.3 million pounds (up 72 percent from 1987). Landings in the Middle Atlantic region were 17.3 million pounds (down 12 percent), and the Chesapeake region, 1.8 million pounds (up 1,277 percent). The average exvessel price per pound for squid was 19 cents in 1988, the same as 1987.

REVIEW

PROCESSED FISHERY PRODUCTS

FRESH AND FROZEN

FISH FILLETS AND STEAKS. In 1988 the U.S. production of raw (uncooked) fish fillets and steaks, including blocks, was 384.3 million pounds--28.2 million pounds more than the 356.1 million pounds in 1987. These fillets and steaks were valued at $776.9 million--$23.9 million more than 1987. Alaska pollock fillets and blocks led all species with 110.0 million pounds--29 percent of the total. Production of qroundfish fillets and steaks (cod, cusk, haddock, hake, Atlantic ocean perch, and Atlantic pollock) was 87.9 million pounds compared with 110.7 million in 1987.

FISH STICKS AND PORTIONS. The combined production of fish sticks and portions was 366.9 million pounds valued at $513.4 million compared with the 1987 production of 422.7 million pounds valued at $588.6 million --an increase of 55.8 million pounds and $7.2 million.

The total production of fish sticks amounted to 80.1 million pounds valued at $113.9 million, a decrease of 18.8 million pounds and $29.1 million compared with 1987. The total production of fish portions amounted to 286.7 million pounds valued at $399.5 million--a decrease of 37.0 million pounds in quantity, but an increase of $46.1 million in value compared with 1987.

BREADED SHRIMP. The production of breaded shrimp in 1988 was 80.1 million pounds valued at $245.1 million, compared with the 1987 production of 108.9 million pounds valued at $371.8 million.

FROZEN FISHERY TRADE. In 1988, stocks of frozen fishery products in cold storage were at a low of 349.7 million pounds on May 31 and a high of 407.1 million pounds on January 31. Cold storage holdings of shrimp products were at a high of 73.1 million pounds on January 31 and a low of 43.7 million pounds on May 31. Saltwater fillets and steaks holdings reached a high of 102.4 million pounds on January 31 and were at a low of 82.2 million pounds on November 30. Holdings of blocks and slabs were at a high of 74.7 million pounds on August 31 and at a low of 60.2 million pounds on December 31. King crab holdings were 5.1 million pounds on November 30, but reached a low of 2.1 million pounds on June 30, 1988. Cold storage holdings were higher the first eight months of 1988, when compared with 1987.

INDUSTRIAL FISHERY PRODUCTS

INDUSTRIAL FISHERY PRODUCTS. The value of the domestic production of industrial fishery products was $235.6 million--an increase of $23.7 million compared with the 1987 value of $211.8 million. The leading state was Louisiana ($103.2 million) which accounted for 49 percent of the total U.S. value for 1987.

FISH MEAL AND SCRAP. The domestic production of fish meal and scrap (including shellfish) was 643.8 million pounds valued at $130.7 million--a decrease of 143.2 million pounds from the 1987 volume but an increase of $9.0 million in value. Menhaden meal production was 504.5 million pounds valued at $114.0 million--a decrease of 164.4 million pounds but an increase of $8.6 million compared to 1987. Menhaden accounted for 78 percent of the 1988 production of fish meal and scrap. Shellfish meal production was 18.8 million pounds--an increase of 2.7 million pounds from the 1987 level. Tuna and mackerel meal production was 75.9 million pounds--a decrease of 8.4 million pounds from 1987. Production of unclassified meal (consisting mainly of alewives, anchovy, carp, sea herring, and unclassified fish) was 44.5 million pounds--an increase of 26.8 million pounds compared with 1987.

FISH SOLUBLES. Domestic production of fish solubles was 223.4 million pounds, 25.8 million pounds less than the 1987 production.

FISH OILS. The domestic production of fish oils was 224.7 million pounds valued at $43.6 million--a decrease of 73.8 million pounds but an increase of $8.1 million compared with 1976 production. The production of menhaden oil was 217.5 million pounds valued at $42.8 million--a decrease of 77.5 million pounds but $7.7 million more in value compared with 1987. Menhaden oil accounted for 97 percent of the volume and 98 percent of the value of the total 1988 fish oil production. Unclassified oil production increased by 3.7 million pounds.

OTHER INDUSTRIAL PRODUCTS. Oyster shell products, together with agar-agar, animal feeds, crab and clam shells processed for food serving, fish pellets, Irish moss extracts, kelp products, dry and liquid fertilizers, pearl essence, shark leathers, and mussel shell buttons were valued at $46.7 million, compared with $37.5 million in 1987--an increase of $9.2 million.

REVIEW

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS. The pack of canned fishery products in the 50 states, American Samoa, and Puerto Rico was 45.2 million standard cases (1.1 billion pounds) valued at $1.5 billion--a decrease of 2.3 million standard cases (55.2 million pounds), and $84.2 million compared with the 1987 pack. The 1988 pack included 40.5 million cases (907.5 million pounds) valued at $1.4 billion for human consumption, and 4.6 million standard cases (222.9 million pounds) valued at $92.7 million for bait and animal food.

CANNED SALMON. The 1988 U.S. pack of natural Pacific salmon was 1.8 million standard cases (87.7 million pounds) valued at $216.8 million, compared with 2.2 million standard cases (105.2 million pounds) valued at $261.9 million packed in 1987. Alaskan plants accounted for 93 percent in quantity and 95 percent in value of the salmon pack.

CANNED SARDINES. The pack of Maine sardines (sea herring) was 796,200 standard cases (18.6 million pounds) valued at $24.1 million, an increase of 235,700 standard cases (5.5 million pounds) and $1.7 million compared with 1987. An additional 90,000 standard cases (4.3 million pounds) of herring valued at $6.0 million were packed in 1988 -- 66,700 standard cases (3.2 million pounds) and $6.6 million less than the 1987 pack.

CANNED TUNA. The U.S. pack of tuna was 30.7 million standard cases (598.2 million pounds) valued at $960.2 million--a decrease of 2.9 million standard cases (55.8 million pounds) in quantity, and $56.2 million in value compared with the 1987 pack. The pack of albacore tuna was 6.7 million standard cases--450,000 standard cases less than the 7.2 million standard cases produced in 1987. Albacore tuna was 22 percent of the tuna pack in 1988. Lightmeat tuna (bigeye, bluefin, skipjack, and yellowfin) comprised the remainder with a pack of 24.0 million standard cases--2.4 million standard cases less than the 26.4 million standard cases packed in 1987.

CANNED CLAMS. The U.S. pack of clams (whole, minced, chowder,and juice) was 4.9 million standard cases (118.5 million pounds) valued at $90.6 million, an increase of 621,700 standard cases (10.5 million pounds) in quantity and $9.3 million more in value than the pack in 1987. The pack of whole and minced clams of 1.8 million standard cases (544,600 standard cases more than the 1987 pack) accounted for 38 percent of the total clam pack. Clam chowder and clam juice (3.0 million standard cases) made up the majority of the remaining pack.

CANNED SHRIMP. The U.S. pack of natural shrimp was 663,000 standard cases (4.5 million pounds) valued at $24.9 million--an increase of 13,900 standard cases (93,000 pounds) and $2.5 million compared with the 1987 pack.

OTHER CANNED ITEMS. The pack of pet food was 4.6 million standard cases valued at $92.2 million--an increase of 47,500 standard cases and $7.6 million compared with the pack in 1987.

PER CAPITA CONSUMPTION

PER CAPITA CONSUMPTION. U.S. per capita consumption of fish and shellfish was 15.0 pounds (edible meat) in 1988. This total was 0.4 pounds less than the 15.4 pounds consumed per capita in 1987.

Per capita consumption of fresh and frozen products registered a total of 9.6 pounds, a decrease of 0.4 pound from the 1987 level. Fresh and frozen finfish consumption was 5.9 pounds per capita in 1988, while fresh and frozen shellfish registered 3.7 pounds per capita. The fresh and frozen finfish consumption includes approximately 0.6 pounds per capita from domestic farm-raised catfish, the same as in 1987.

Consumption of canned fishery products was 5.1 pounds per capita in 1988 the same as in 1987.

In addition to consumption of commercially caught fish and shellfish, recreational fishermen caught and consumed an estimated 3 to 4 pounds of edible meat per person.

PER CAPITA USE. The per capita use of all fishery products (edible and industrial) was 59.4 pounds (round weight) -- down 5.2 pounds compared with 1987.

FOREIGN TRADE IN FISHERY PRODUCTS

IMPORTS. U.S. imports of edible fishery products in 1988 were valued at $5.5 billion, $251.8 million lower than the record for value established in 1987. The quantity of edible imports was 3.0 billion pounds, 230.2 million pounds less than the previous record quantity imported in 1987. The quantity of shrimp imported in 1988 established a record with 503.9 million pounds, 25.6 million pounds more than the previous record quantity imported in 1987 and valued at $1.8 billion, $44.5 million more than the 1987 value. Shrimp imports accounted for 32 percent of the value of total edible imports. Imports of fresh and frozen tuna were 550.1 million pounds, 22.4 million pounds less than the 572.5 million pounds imported in 1987. Imports of canned tuna (not in oil) were 244.2 million pounds, 32.8 million pounds more than the 211.4 million pounds imported in 1987. Imports of fresh and frozen fillets and steaks amounted to 517.7 million pounds, a decline of 103.3 million pounds from 1987. Regular and minced block imports were 303.2 million pounds, a decline of 100.3 million pounds from 1987. Edible imports consisted of 2.5 billion pounds of fresh and frozen products valued at $4.7 billion, 428.7 million pounds of canned products valued at $586.9 million, 63.5 million pounds of cured products valued at $89.0 million, and 11.0 million pounds of other products valued at $29.1 million. Analog products (surimi) amounted to 24.5 million pounds valued at $41.6 million in 1988, compared to 30.5 million pounds valued at $51.2 million in 1987.

Imports of nonedible fishery products were valued at a record $3.4 billion -- $306.1 million more than the $3.1 billion imported in 1987. Total value of edible and nonedible products resulted in a record import value of $8.9 billion in 1988 -- $54.3 million more than the previous record in 1987, when $8.8 billion of fishery products were imported.

EXPORTS. U.S. exports of edible fishery products of domestic origin were a record 1.1 billion pounds valued at a record $2.2 billion, compared with 782.9 million pounds at $1.6 billion exported in 1987. The $221.1 million received for U.S.-flag vessel catches transferred onto foreign vessels in the U.S. EEZ in joint venture operations are not included in the export statistics. Fresh and frozen items were 940.3 million pounds valued at $1.8 billion, an increase of 245.6 million pounds and $501.6 million compared with 1987. Fresh and frozen exports consisted principally of 294.1 million pounds of salmon valued at $830.4 million and 94.0 million pounds of herring valued at $94.9 million. Canned items were 62.2 million pounds valued at $142.1 million, up 8.6 million pounds and $21.8 million from 1987 levels. Salmon was the major canned item exported, with 32.9 million pounds valued at $91.6 million. The dramatic increase of canned sardines, 8.6 million pounds valued at $7.9 million in 1988 as compared to the 1987 volume of 999,000 pounds valued at $688,000, is due to an aberration in the methodology of tracking exports to and reentry from a foreign nation. Cured items were 60.7 million pounds valued at $182.8 million, an increase of 26.4 million pounds. Cured exports consisted mainly of salmon and herring roe, which amounted to 36.1 million pounds valued at $124.6 million.

Exports of nonedible products were valued at $113.0 million -- $30.2 million more than the $82.8 million exported in 1987. Exports of fishmeal amounted to 246.3 million pounds valued at $23.4 million, increases of 142.9 million pounds and $10.2 million compared with 1987. Fishmeal exports accounted for 21 percent of the value of total nonedible exports in 1988. The total value of edible and nonedible exports was $2.3 billion -- an increase of $614.2 million compared with 1987.

U.S. COMMERCIAL LANDINGS

U.S. DOMESTIC LANDINGS, BY SPECIES, 1987 AND 1988 (1)

Species	1987		1988		(1983-87)
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Alewives:					
Atlantic and Gulf...	6,145	616	5,645	625	9,946
Great Lakes.....	14,396	1,052	10,705	191	21,021
Anchovies.....	12,857	2,706	12,425	2,615	16,192
Bluefish.....	15,226	3,254	16,853	3,012	14,474
Bonito.....	11,420	2,507	9,210	1,827	6,457
Butterfish.....	10,315	6,496	5,441	3,407	13,432
Cod:					
Atlantic.....	59,100	44,179	76,073	42,941	82,461
Pacific.....	170,611	31,443	267,205	38,429	123,985
Croaker.....	11,044	4,396	10,604	4,596	10,692
Cusk.....	3,064	1,649	2,363	1,021	4,127
Flounders:					
Atlantic and Gulf:					
Blackback.....	19,310	22,948	18,103	21,533	24,840
Fluke.....	30,271	41,783	36,011	44,345	34,189
Yellowtail.....	16,667	20,810	11,114	13,187	35,266
Other.....	27,422	30,352	25,608	27,022	39,378
Pacific.....	106,041	29,187	137,784	34,055	73,928
Total.....	199,711	145,080	228,620	140,142	207,600
Grouper.....	9,494	16,058	12,228	21,703	11,550
Haddock.....	6,673	8,522	6,429	7,030	18,123
Hake:					
Pacific (whiting)...	38,783	1,900	15,740	1,160	22,568
Red.....	4,428	866	3,834	618	4,573
White.....	13,485	5,466	12,006	3,639	14,677
Halibut.....	76,107	88,254	81,608	72,718	61,591
Herring, sea:					
Atlantic.....	84,536	4,368	90,397	5,229	69,219
Pacific.....	122,598	47,916	131,432	57,431	125,883
Jack mackerel.....	26,671	1,831	22,546	1,685	26,829
Lingcod.....	7,027	2,603	6,536	2,385	8,078
Mackerel:					
Atlantic.....	9,933	1,065	14,753	1,962	7,814
King.....	4,577	4,981	4,308	5,043	5,465
Pacific.....	93,755	6,433	100,342	7,498	84,195
Spanish.....	6,838	2,249	4,237	1,479	5,884
Menhaden:					
Atlantic.....	712,454	33,901	677,928	32,445	743,950
Gulf.....	1,999,831	70,524	1,408,140	73,259	1,995,438
Total.....	2,712,285	104,425	2,086,068	105,704	2,739,387
Mullets.....	30,125	8,224	32,642	11,218	24,261
Ocean perch:					
Atlantic.....	4,202	2,709	2,350	1,467	9,213
Pacific.....	19,982	4,478	11,919	2,546	11,731
Pollock:					
Atlantic.....	45,645	17,916	33,052	11,071	42,789
Alaska.....	552,048	45,849	1,257,251	95,252	160,473
Rockfishes.....	117,881	38,153	124,026	38,663	95,381
Sablefish.....	102,698	58,107	107,511	91,779	68,226
Salmon, Pacific:					
Chinook or king.....	39,938	80,068	45,672	117,551	28,821
Chum or keta.....	86,320	43,801	146,467	134,689	91,708
Pink.....	169,308	56,459	176,487	127,297	245,370
Red or sockeye.....	227,411	359,767	190,036	437,630	243,102
Silver or coho.....	39,041	56,281	47,486	93,506	46,637
Total.....	562,018	596,376	606,148	910,673	655,637
Scup or porgy.....	14,295	9,810	14,358	9,572	16,752
Sea bass:					
Black.....	4,967	5,094	4,824	5,144	4,521
White.....	116	223	107	218	106
Sea trout:					
Gray.....	17,927	7,499	20,533	7,948	18,440
Spotted.....	3,395	3,181	3,094	3,169	3,244
White.....	549	234	371	229	552
Sharks:					
Dogfish.....	14,167	1,573	10,070	975	11,474
Other.....	7,665	5,338	14,598	8,454	5,802

See notes at end of table.

(Continued)

U.S. DOMESTIC LANDINGS, BY SPECIES, 1987 AND 1988 (1) - Continued

Species	1987		1988		(1983-87)
Fish -continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds
Snapper:					
Red	3,737	8,661	4,154	9,496	5,219
Other	5,171	10,034	6,796	11,319	4,154
Striped bass	431	485	407	517	1,269
Swordfish	9,761	34,974	12,818	42,703	11,292
Tilefish	7,950	8,852	4,555	7,222	6,350
Tuna:					
Albacore	7,728	6,037	12,303	10,598	18,047
Bigeye	3,305	9,445	4,150	14,421	1,487
Bluefin	4,332	16,463	3,745	17,305	8,425
Skipjack	15,919	8,700	24,395	13,796	47,488
Yellowfin	67,572	54,152	65,975	64,324	77,380
Unclassified	1,202	1,006	781	546	1,262
Total	100,058	95,803	111,349	120,990	154,089
Whiting	34,673	11,584	35,569	8,621	40,571
Other marine finfishes	199,795	67,731	220,194	71,360	-
Other freshwater finfishes	117,880	45,838	29,257	18,534	-
Total	5,708,215	1,629,041	5,905,561	2,023,230	-
Shellfish et al.					
Clams:					
Hard	11,418	49,593	12,371	67,818	13,769
Ocean quahog	50,255	16,576	46,310	14,921	44,329
Soft	7,469	19,770	6,814	18,717	7,520
Surf	60,744	27,993	63,545	29,183	67,639
Other	4,471	18,929	2,700	4,142	2,469
Total	134,357	132,861	131,740	134,781	135,725
Crabs:					
Blue, hard	197,826	70,776	218,663	84,357	193,230
Dungeness	29,460	38,492	47,440	54,771	26,774
King	29,065	98,929	20,973	84,153	22,624
Snow (tanner)	113,812	98,684	146,326	137,052	83,879
Other	16,205	14,994	22,227	23,227	15,413
Total	386,368	321,875	455,629	383,560	341,921
Lobsters:					
American	45,558	133,554	48,643	145,236	45,187
Spiny	5,755	21,317	7,166	23,030	5,872
Oysters	39,807	92,423	31,892	78,498	44,594
Scallops:					
Bay	580	3,159	569	3,414	1,342
Calico	8,155	8,889	11,868	12,462	14,244
Sea	32,038	132,263	30,557	128,243	21,353
Shrimp:					
New England	11,081	12,158	6,786	7,497	8,248
South Atlantic	22,905	46,396	24,244	51,667	23,958
Gulf	257,148	469,281	225,789	414,469	255,364
Pacific	72,008	50,247	74,054	32,401	42,027
Other	(2)	2	-	-	93
Total	363,142	578,084	330,873	506,034	329,597
Squid:					
Atlantic	38,883	12,493	46,739	16,220	32,604
Pacific	43,166	4,300	80,426	7,689	22,864
Other shellfish	89,702	44,454	110,890	57,862	-
Total shellfish et al.	1,187,511	1,485,672	1,286,992	1,497,029	-
Grand total	6,895,726	3,114,713	7,192,553	3,520,259	-

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage Area States are not available for 1988. (2) Less than 500 lb.

Note:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" table on page 6. Data do not include aquaculture products, except oysters and clams.

DISPOSITION OF U.S. DOMESTIC LANDINGS, 1987 AND 1988 (PRELIMINARY)

End Use	1987		1988	
	Million pounds	Percent	Million pounds	Percent
Fresh and frozen:				
For human food. . .	2,958	42.9	3,605	50.1
For bait and animal food. . . .	199	2.9	208	2.9
Total. . . .	3,157	45.8	3,813	53.0
Canned:				
For human food. . .	899	13.0	897	12.5
For bait and animal food. . . .	110	1.6	120	1.7
Total. . . .	1,009	14.6	1,017	14.1
Cured for human food.	89	1.3	86	1.2
Reduction to meal, oil, etc..	2,641	38.3	2,276	31.6
Grand total. . .	6,896	100.0	7,192	100.0

NOTE:--Data are preliminary. Table may not add to rounding.

DISPOSITION OF U.S. DOMESTIC LANDINGS, BY MONTH, 1988 (1)

Month	Landings for Human food		Landings for Industrial purposes (1)		Total	
	Million pounds	Percent	Million pounds	Percent	Million pounds	Percent
January.	224,037	4.9	44,484	1.7	268,521	3.7
February	253,014	5.5	40,472	1.6	293,486	4.1
March.	278,296	6.1	39,180	1.5	317,476	4.4
April.	362,159	7.9	133,134	5.1	495,293	6.9
May.	376,217	8.2	293,861	11.3	670,078	9.3
June	435,848	9.5	420,213	16.1	856,061	11.9
July	662,428	14.4	396,366	15.2	1,058,794	14.7
August	621,168	13.5	558,216	21.4	1,179,384	16.4
September.	438,261	9.6	338,005	13.0	776,266	10.8
October.	347,362	7.6	162,315	6.2	509,677	7.1
November	307,566	6.7	80,693	3.1	388,259	5.4
December	282,014	6.1	97,244	3.7	379,258	5.3
Total.	4,588,370	100.0	2,604,183	100.0	7,192,553	100.0

(1) Processed into meal, oil, solubles, and shell products, and used as bait and animal food.

U.S. COMMERCIAL LANDINGS OF FISH AND SHELLFISH, 1979-88 (1)

Year	Landings for Human Food		Landings for Industrial Purposes (2)		Total	
	Million pounds	Million dollars	Million pounds	Million dollars	Million pounds	Million dollars
1979 (3).	3,318	2,093	2,949	141	6,267	2,234
1980 (3).	3,654	2,092	2,828	145	6,482	2,237
1981 (3).	3,547	2,277	2,430	111	5,977	2,388
1982 (3).	3,285	2,247	3,082	143	6,367	2,390
1983 (3).	3,238	2,203	*3,201	152	6,439	2,355
1984 (3).	3,320	2,206	3,118	144	6,438	2,350
1985 (3).	3,294	2,198	2,964	128	6,258	2,326
1986 (3).	3,393	2,641	2,638	122	6,031	2,763
1987 (3).	3,946	2,979	2,950	136	6,896	3,115
1988 (3).	*4,588	3,362	2,604	158	*7,192	3,520

(1) Statistics on Landings are shown in round weight for all items except univalve and bivalve mollusks such as clams, oysters, and scallops, which are shown in weight of meats (excluding the shell). (2) processed into fish meal, oil, solubles, and shell products, or used as bait or animal food. (3) Data are preliminary.
NOTE:--Joint venture catches are included in 1979. Data do not include landings outside the 50 states or products of aquaculture, except oysters and clams. Records.

U.S. DOMESTIC LANDINGS, BY STATES, 1987 AND 1988 (1)

States	1987		1988		Record Landings	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Year	Thousand pounds
Alabama	24,459	44,615	22,296	39,709	1973	39,749
Alaska	1,697,547	941,690	2,639,250	1,339,424	1988	2,639,250
California	451,663	173,234	495,577	199,316	1936	1,760,193
Connecticut	8,562	15,974	9,133	17,444	1930	88,012
Delaware	6,022	2,308	5,536	3,161	1953	367,500
Florida	172,734	156,626	182,220	169,639	1938	241,443
Georgia	14,961	19,624	16,609	21,480	1927	47,607
Hawaii	16,088	29,056	21,131	39,749	1984	34,824
Illinois	7,081	2,348	268	330	-	(2)
Indiana	1,399	1,863	1,301	1,677	-	(2)
Louisiana	1,803,944	315,933	1,356,466	317,297	1984	1,931,027
Maine	170,082	132,420	157,281	123,933	1950	356,266
Maryland	81,658	53,458	79,739	44,083	1890	141,607
Massachusetts	258,066	278,913	286,476	274,030	1948	649,696
Michigan	15,072	7,647	15,965	9,566	1930	35,580
Minnesota	13,730	4,408	334	97	-	(2)
Mississippi	436,729	48,228	336,369	61,180	1984	476,997
New Hampshire	8,287	7,738	10,808	8,818	-	(2)
New Jersey	116,141	72,643	112,617	71,863	1956	540,060
New York	40,882	53,352	38,508	54,224	1880	335,000
North Carolina	156,608	63,461	191,281	75,823	1981	432,006
Ohio	3,217	843	3,438	1,062	1936	31,083
Oregon	138,545	95,293	148,601	97,695	1988	148,601
Pennsylvania	195	148	380	277	-	(2)
Rhode Island	100,150	77,414	106,208	69,422	1889	128,056
South Carolina	15,003	22,047	16,249	21,052	1965	26,611
Texas	111,216	199,662	96,039	175,738	1960	237,684
Virginia	709,595	106,195	650,770	104,334	1983	751,069
Washington	205,073	150,181	173,553	172,274	1941	197,253
Wisconsin	38,944	8,787	18,150	5,562	-	(2)
Other	72,073	28,604	-	-	-	(2)
Grand Total	6,895,726	3,114,713	7,192,553	3,520,259	1988	7,192,553

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage Area States are not available for 1988.
(2) Not available.

NOTE:--Data are preliminary. Data do not include landings by U.S.-Flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings" table on page 6. Data do not include aquaculture products, except oysters and clams.

U.S. DOMESTIC LANDINGS, BY REGIONS, 1987 AND 1988 (1)

Region	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
New England	545,147	512,459	569,906	493,647
Middle Atlantic	162,797	128,049	156,442	129,033
Chesapeake	791,253	159,653	730,509	148,417
South Atlantic	235,091	150,361	280,052	173,613
Gulf	2,500,563	719,835	1,937,477	708,305
Pacific Coast and Alaska	2,492,828	1,360,398	3,456,981	1,808,709
Great Lakes	41,788	16,940	40,055	18,786
Hawaii	16,088	29,056	21,131	39,749
Other	110,171	37,962	-	-
Total	6,895,726	3,114,713	7,192,553	3,520,259

(1) Landings are reported in round (live) weight for all items except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). Landings for Mississippi River Drainage Area States are not available for 1988.

NOTE:--Data are preliminary. Data do not include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, or catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint venture). Therefore, they will not agree with "U.S. Commercial Landings" table on page 6. Data do not include aquaculture products, except oysters and clams.

COMMERCIAL FISHERY LANDINGS AND VALUE AT MAJOR U.S. PORTS, 1986-88

Port	Quantity			Port	Value		
	1986	1987	1988		1986	1987	1988
	-----Million pounds----				----Million dollars----		
Cameron, LA	616.8	672.4	438.9	Kodiak, AK	89.8	132.1	*166.3
Dutch Harbor-Unalaska, AK	88.3	128.2	377.3	New Bedford, MA	106.0	143.7	140.9
Kodiak, AK	141.2	204.1	304.6	Dutch Harbor-Unalaska, AK	37.2	62.7	100.9
Empire-Venice, LA	317.6	357.4	297.2	Kenai, AK	(1)	(1)	99.3
Pascagoula-Moss Point, MS	365.5	391.6	292.0	Empire-Venice, LA	47.1	60.1	67.7
Dulac-Chauvin, LA	294.6	331.7	244.1	Petersburg, AK	38.1	36.9	58.5
Los Angeles, CA	187.4	203.1	232.0	Dulac-Chauvin, LA	71.0	65.6	56.5
Intercoastal City, LA	298.9	314.3	209.7	Cordova, AK	(1)	41.9	46.4
Beaufort-Morehead City, NC	98.9	85.7	110.0	Aransas Pass-Rockport, TX	60.3	36.4	45.6
Gloucester, MA	110.0	93.0	107.4	Ketchikan, AK	20.6	22.8	43.5
New Bedford, MA	65.8	78.7	90.3	Homer, AK	(1)	(1)	40.2
Port Hueneme-Oxnard-Ventura, CA	31.0	42.3	55.0	Brownsville-Port Isabel, TX	69.3	54.2	39.7
Petersburg, AK	85.2	42.4	50.4	Sitka, AK	21.8	33.6	37.4
Point Judith, RI	52.1	46.6	49.6	Golden Meadow-Leeville, LA	40.0	36.6	37.0
Cape May-Wildwood, NJ	36.6	56.8	47.9	Hampton Roads Area, VA	23.6	46.2	34.4
Kenai, AK	(1)	(1)	47.4	Los Angeles, CA	29.5	55.6	34.0
Astoria, OR	36.8	46.6	44.2	Cameron, LA	34.8	31.9	33.2
Portland, ME	34.9	43.8	43.9	Gloucester, MA	37.8	34.0	30.8
Morgan City-Berwick, LA	17.4	27.0	43.3	Portland, ME	22.4	35.8	30.4
Cordova, AK	(1)	69.6	42.5	Bellingham, WA	28.8	27.4	30.1
Biloxi, MS	46.7	38.2	42.3	Biloxi, MS	15.2	14.2	29.5
Rockland, ME	43.4	38.7	40.6	Cape May-Wildwood, NJ	20.9	30.5	28.4
Newport, OR	26.7	35.9	38.5	Pascagoula-Moss Point, MS	20.4	20.3	28.2
Crescent City, CA	20.9	23.1	36.0	Beaufort-Morehead City, NC	24.7	22.7	27.0
Bellingham, WA	45.9	47.5	35.3	Point Judith, RI	28.5	29.5	25.4
Westport, WA	22.9	26.2	34.8	Cape Canaveral, FL	15.9	21.7	24.3
Coos Bay-Charleston, OR	24.3	29.6	33.0	Newport, OR	13.5	21.9	24.3
Homer, AK	(1)	(1)	32.1	Astoria, OR	16.4	24.6	24.3
Wanchese-Stumpy Point, NC	27.2	28.3	31.0	Bayou La Batre, AL	43.3	29.8	23.8
Fort Bragg, CA	17.8	25.9	31.0	Freeport, TX	26.7	23.6	22.6
Golden Meadow-Leeville, LA	25.1	27.4	30.1	Coos Bay-Charleston, OR	11.9	19.1	21.8
Ketchikan, AK	42.2	27.6	28.3	Galveston, TX	20.9	11.4	21.4
Atlantic City, NJ	22.0	24.9	27.7	Westport, WA	11.3	15.8	21.2
Sitka, AK	25.2	27.1	27.7	Fort Bragg, CA	8.5	12.5	21.0
Eureka, CA	19.4	28.5	27.0	Seward, AK	(1)	(1)	19.5
Provincetown-Chatham, MA	26.6	25.3	25.2	Seattle, WA	21.8	21.9	19.5
San Francisco Area, CA	25.9	27.0	25.0	Port Arthur, TX	29.9	22.9	17.4
Ilwaco-Chinook, WA	18.3	18.8	23.2	Bodega Bay, CA	6.1	13.4	17.0
Seward, AK	(1)	(1)	23.0	Wanchese-Stumpy Point, NC	12.3	13.9	17.0
Ocean City, MD	29.1	22.5	21.1	Key West, FL	27.4	22.4	16.8
Boston, MA	31.4	23.0	20.8	Morgan City-Berwick, LA	7.5	11.0	16.7
Hampton Roads Area, VA	24.8	29.6	20.0	Crescent City, CA	10.6	12.1	16.0
Seattle, WA	38.2	22.2	17.5	Lafitte-Barataria, LA	24.1	19.2	16.0
Point Pleasant, NJ	15.1	(1)	17.3	San Francisco Area, CA	11.1	12.5	15.0
Cape Canaveral, FL	8.1	14.6	16.4	Montauk, NY	12.8	15.9	14.7
Aransas Pass-Rockport, TX	27.1	10.2	15.6	Intercoastal City, LA	11.3	13.4	14.7
Bethel-Aniak, AK	(1)	(1)	14.6	Boston, MA	19.1	16.9	14.5
Everett, WA	12.8	23.5	14.5	Yakutat, AK	(1)	(1)	14.5
Bodega Bay, CA	8.5	12.9	14.0	Ilwaco-Chinook, WA	9.1	13.1	14.0
Oriental-Vandemere, NC	10.7	10.9	14.0	Delcambre, LA	28.4	22.1	12.7
Monterey, CA	16.4	16.1	14.0	Fort Myers, FL	11.5	10.4	12.7
Brownsville-Port Isabel, TX	25.5	13.4	13.8	Atlantic City, NJ	12.7	11.4	12.6
Tacoma, WA	(1)	(1)	13.6	Bon Secour-Gulf Shore, AL	13.5	13.0	12.5
Montauk, NY	11.0	14.7	13.2	Eureka, CA	8.3	12.6	12.0
Bayou La Batre, AL	25.6	15.1	12.4	Grand Isle, LA	11.9	12.6	12.0
Blaine, WA	14.3	17.9	11.9	Provincetown-Chatham, MA	11.8	12.7	11.6
Lafitte-Barataria, LA	16.8	12.7	11.9	Blaine, WA	11.1	15.2	11.2
Delacroix-Yscloskey, LA	16.3	12.5	11.1	Delacroix-Yscloskey, LA	12.5	13.1	11.0
Grand Isle, LA	14.0	12.3	10.8	San Diego, CA	7.5	11.5	11.0
Delcambre, LA	18.7	13.9	10.8	Bethel-Aniak, AK	(1)	(1)	10.3

(1) Not available. *Record. Record quantity was 848.2 million lb landed in Los Angeles, California in 1960.

NOTE:--To avoid disclosure of private enterprise certain leading ports have not been included.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1988 (1)

SPECIES	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Fish	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Alewives:								
Atlantic and Gulf.	5,626	624	19	1	-	-	5,645	625
Great Lakes. . . .	10,705	191	-	-	-	-	10,705	191
Anchovies.	1,321	295	11,104	2,320	-	-	12,425	2,615
Bluefish	11,135	2,065	5,718	947	-	-	16,853	3,012
Bonito	371	76	8,839	1,751	-	-	9,210	1,827
Butterfish	705	423	4,736	2,984	-	-	5,441	3,407
Cod:								
Atlantic	1,443	811	74,015	41,861	615	269	76,073	42,941
Pacific.	39,801	5,687	473,275	63,171	-	-	513,076	68,858
Croaker.	9,473	4,159	1,131	437	-	-	10,604	4,596
Cusk	10	2	2,339	1,013	14	6	2,363	1,021
Flounders:								
Atlantic and Gulf:								
Blackback. . . .	3,090	2,821	15,011	18,710	2	2	18,103	21,533
Fluke.	10,792	13,562	25,219	30,783	-	-	36,011	44,345
Yellowtail . .	583	698	8,632	10,918	1,899	1,571	11,114	13,187
Other.	1,459	1,238	20,273	22,633	3,876	3,151	25,608	27,022
Pacific.	83,464	14,069	782,098	73,749	-	-	865,562	87,818
Total.	99,388	32,388	851,233	156,793	5,777	4,724	956,398	193,905
Groupers	173	318	12,055	21,385	-	-	12,228	21,703
Haddock.	2	3	6,423	7,022	4	5	6,429	7,030
Hake:								
Pacific (whiting).	760	37	314,323	15,783	-	-	315,083	15,820
Red.	159	29	3,675	589	-	-	3,834	618
White.	41	8	11,897	3,605	68	26	12,006	3,639
Halibut.	30,166	26,169	51,346	46,356	96	193	81,608	72,718
Herring, sea:								
Atlantic	36,803	2,420	53,588	2,809	6	(3)	90,397	5,229
Pacific.	131,432	57,431	-	-	-	-	131,432	57,431
Jack mackerel. . . .	-	-	22,546	1,685	-	-	22,546	1,685
Lingcod.	965	375	5,571	2,010	-	-	6,536	2,385
Mackerel:								
Atlantic	1,244	352	26,042	2,370	-	-	27,286	2,722
King	840	1,019	3,468	4,024	-	-	4,308	5,043
Pacific.	1	(1)	100,341	7,498	-	-	100,342	7,498
Spanish.	1,566	537	2,671	942	-	-	4,237	1,479

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1988 (1) - (Continued)

SPECIES	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Fish - Continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Menhaden:								
Atlantic	674,026	32,361	120,658	2,801	-	-	794,684	35,162
Gulf	1,068,104	56,303	340,036	16,956	-	-	1,408,140	73,259
Total	1,742,130	88,664	460,694	19,757	-	-	2,202,824	108,421
Mullet	32,642	11,218	-	-	-	-	32,642	11,218
Ocean perch:								
Atlantic	3	1	2,324	1,453	23	13	2,350	1,467
Pacific	5,032	666	6,887	1,880		-	11,919	2,546
Pollock:								
Atlantic	53	21	32,867	10,991	132	59	33,052	11,071
Alaska	188,579	14,287	2,890,914	197,067	-	-	3,079,493	211,354
Rockfishes	22,112	6,514	106,550	32,854	-	-	128,662	39,368
Sablefish	12,370	11, 281	95,253	80,512	-	-	107,623	91,793
Salmon, Pacific:								
Chinook or king	34,072	85,046	11,600	32,505	-	-	45,672	117,551
Chum or keta	146,467	134,689	-	-	-	-	146,467	134,689
Pink	176,487	127,297	-	-	-	-	176,487	127,297
Red or sockeye	190,036	437,630	-	-	-	-	190,036	437,630
Silver or coho	45,263	89,049	2,223	4,457	-	-	47,486	93,506
Total	592,325	873,711	13,823	36,962	-	-	606,148	910,673
Scup or porgy	4,481	2,899	9,877	6,673	-	-	14,358	9,572
Sea bass:								
Black	514	888	4,310	4,256	-	-	4,824	5,144
White	47	96	60	122	-	-	107	218
Sea trout:								
Gray	12,155	5,353	8,378	2,595	-	-	20,533	7,948
Spotted	3,010	3,075	84	94	-	-	3,094	3,169
White	300	198	71	31	-	-	371	229
Sharks:								
Dogfish	4,396	575	5,674	400	-	-	10,070	975
Other	1,981	1,034	12,556	7,342	61	78	14,598	8,454
Snapper:								
Red	36	69	4,118	9,427	-	-	4,154	9,496
Other	691	1,139	6,105	10,180	-	-	6,796	11,319
Striped bass	380	479	27	38	-	-	407	517
Swordfish	32	97	9,118	31,984	3,668	10,622	12,818	42,703
Tilefish	29	86	4,526	7,136	-	-	4,555	7,222

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1988 (1) - (Continued)

SPECIES	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Fish - Continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Tuna:								
Albacore	4	2	8,896	7,566	10,155	8,710	19,055	16,278
Bigeye	63	270	3,667	12,860	1,719	2,019	5,449	15,149
Bluefin	16	21	2,916	16,877	813	407	3,745	17,305
Skipjack	1	1	5,291	5,772	294,707	143,279	299,999	149,052
Yellowfin	495	885	25,481	39,353	254,319	141,964	280,295	182,202
Unclassified	98	9	683	537	-	-	781	546
Total	677	1,188	46,934	82,965	561,713	296,379	609,324	380,532
Whiting	581	186	34,988	8,435	-	-	35,569	8,621
Other marine finfishes	137,724	43,948	125,781	30,907	382	98	263,887	74,953
Other freshwater finfishes	29,257	18,534	-	-	-	-	29,257	18,534
Total fish	3,175,667	1,221,626	5,928,274	971,417	572,559	312,472	9,676,500	2,505,515
Shellfish								
Clams:								
Hard	12,371	67,818	-	-	-	-	12,371	67,818
Ocean quahog	909	1,509	45,401	13,412	-	-	46,310	14,921
Soft	6,814	18,717	-	-	-	-	6,814	18,717
Surf	10,744	4,622	52,801	24,561	-	-	63,545	29,183
Other	2,700	4,142	-	-	-	-	2,700	4,142
Total	33,538	96,808	98,202	37,973	-	-	131,740	134,781
Crabs:								
Blue, hard	218,590	84,336	73	21	-	-	218,663	84,357
Dungeness	35,987	41,484	11,453	13,287	-	-	47,440	54,771
King	10,815	43,207	10,158	40,946	-	-	20,973	84,153
Snow (tanner)	8,678	19,191	137,648	117,861	-	-	146,326	137,052
Other	7,032	5,962	15,173	17,254	22	11	22,227	23,227
Total	281,102	194,180	174,505	189,369	22	11	455,629	383,560
Lobsters:								
American	41,907	121,181	6,700	23,896	36	159	48,643	145,236
Spiny	1,853	6,689	5,313	16,341	-	-	7,166	23,030

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1988 (1) - (Continued)

SPECIES	Distance caught off U.S. shores				International waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Shellfish - Continued	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Oysters.	31,892	78,498	-	-	-	-	31,892	78,498
Scallops:								
Bay.	569	3,414	-	-	-	-	569	3,414
Calico	-	-	11,868	12,462	-	-	11,868	12,462
Sea.	1,213	4,748	29,344	123,495	-	-	30,557	128,243
Shrimp:								
New England. . . .	628	681	6,158	6,816	-	-	6,786	7,497
South Atlantic . .	21,012	45,740	3,232	5,927	-	-	24,244	51,667
Gulf	129,870	185,518	95,919	228,951	-	-	225,789	414,469
Pacific Coast. . .	11,028	4,997	63,026	27,404	-	-	74,054	32,401
Total.	162,538	236,936	168,335	269,098	-	-	330,873	506,034
Squid:								
Atlantic	10,612	3,493	36,127	12,727	-	-	46,739	16,220
Pacific.	40,067	3,831	40,359	3,858	-	-	80,426	7,689
Other shellfish. . .	103,716	54,743	11,308	10,643	-	-	115,024	65,386
Total shellfish et al.. . .	709,007	804,521	582,061	699,862	58	170	1,291,126	1,504,553
Grand total, 1988	3,884,674	2,026,147	6,510,335	1,671,279	572,617	312,642	10,967,626	4,010,068
Grand total, 1987	4,059,938	1,651,965	6,215,638	1,628,962	604,383	276,078	10,879,959	3,556,882

(1) Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance from shore for Texas landings data collected by Texas Parks and Wildlife Department.

(2) Includes landings from the Great Lakes and other inland waters, but excludes Mississippi River Drainage Area States.

(3) Less than $500.

(4) For individual species breakout see "Fisheries of the United States, 1987" pages 8-11.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, and catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page one. Data do not include aquaculture products, except oysters and clams.

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1988 (1) - Continued

Species	Distance caught off U.S. Shores				International waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Fish	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Alewives:								
Atlantic and Gulf.	2,552	624	9	1	-	-	2,561	625
Great Lakes. . . .	4,856	191	-	-	-	-	4,856	191
Anchovies.	599	295	5,037	2,320	-	-	5,636	2,615
Bluefish	5,051	2,065	2,593	947	-	-	7,644	3,012
Bonito	168	76	4,010	1,751	-	-	4,178	1,827
Butterfish	320	423	2,148	2,984	-	-	2,468	3,407
Cod:								
Atlantic	655	811	33,572	41,861	279	269	34,506	42,941
Pacific.	18,053	5,687	214,674	63,171	-	-	232,727	68,858
Croaker.	4,297	4,159	513	437	-	-	4,810	4,596
Cusk	5	2	1,061	1,013	6	6	1,072	1,021
Flounders:								
Atlantic and Gulf:								
Blackback. . . .	1,402	2,821	6,808	18,710	1	2	8,211	21,533
Fluke.	4,895	13,562	11,439	30,783	-	-	16,334	44,345
Yellowtail . . .	264	698	3,916	10,918	861	1,571	5,041	13,187
Other.	662	1,238	9,196	22,633	1,758	3,151	11,616	27,022
Pacific.	37,859	14,069	354,753	73,749	-	-	392,612	87,818
Total	45,082	32,388	386,112	156,793	2,620	4,724	433,814	193,905
Groupers	78	318	5,469	21,385	-	-	5,547	21,703
Haddock.	1	3	2,913	7,022	2	5	2,916	7,030
Hake:								
Pacific (whiting).	345	37	142,574	15,783	-	-	142,919	15,820
Red.	72	29	1,667	589	-	-	1,739	618
White.	19	8	5,396	3,605	31	26	5,446	3,639
Halibut.	13,683	26,169	23,290	46,356	44	193	37,017	72,718
Herring, sea:								
Atlantic	16,694	2,420	24,306	2,809	3	(3)	41,003	5,229
Pacific.	59,617	57,431	-	-	-	-	59,617	57,431
Jack mackerel. . . .	-	-	10,227	1,685	-	-	10,227	1,685
Lingcod.	438	375	2,527	2,010	-	-	2,965	2,385
Mackerel:								
Atlantic	564	352	11,813	2,370	-	-	12,377	2,722
King	381	1,019	1,573	4,024	-	-	1,954	5,043
Pacific.	-	-	45,514	7,498	-	-	45,514	7,498
Spanish.	710	537	1,212	942	-	-	1,922	1,479

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1988 (1) - Continued

Species	Distance caught off U.S. Shores				International waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Fish	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Menhaden								
Atlantic	305,733	32,361	54,729	2,801	-	-	360,462	35,162
Gulf	484,483	56,303	154,238	16,956	-	-	638,721	73,259
Total	790,216	88,664	208,967	19,757	-	-	999,183	108,421
Mullets	14,806	11,218	-	-	-	-	14,806	11,218
Ocean perch:								
Atlantic	1	1	1,055	1,453	10	13	1,066	1,467
Pacific	2,282	666	3,124	1,880	-	-	5,406	2,546
Pollock:								
Atlantic	24	21	14,908	10,991	60	59	14,992	11,071
Alaska	85,538	14,287	1,311,295	197,067	-	-	1,396,833	211,354
Rockfishes	10,030	6,514	48,330	32,854	-	-	58,360	39,368
Sablefish	5,611	11,281	43,206	80,512	-	-	48,817	91,793
Salmon, Pacific:								
Chinook or king	15,455	85,046	5,261	32,505	-	-	20,716	117,551
Chum or keta	66,436	134,689	-	-	-	-	66,436	134,689
Pink	80,053	127,297	-	-	-	-	80,053	127,297
Red or sockeye	86,199	437,630	-	-	-	-	86,199	437,630
Silver or coho	20,531	89,049	1,008	4,457	-	-	21,539	93,506
Total	268,674	873,711	6,269	36,962	-	-	274,943	910,673
Scup or porgy	2,033	2,899	4,480	6,673	-	-	6,513	9,572
Sea bass:								
Black	233	888	1,955	4,256	-	-	2,188	5,144
White	21	96	28	122	-	-	49	218
Sea trout:								
Gray	5,513	5,353	3,801	2,595	-	-	9,314	7,948
Spotted	1,365	3,075	38	94	-	-	1,403	3,169
White	136	198	32	31	-	-	168	229
Sharks:								
Dogfish	1,994	575	2,574	400	-	-	4,568	975
Other	899	1,034	5,695	7,342	28	78	6,622	8,454
Snapper:								
Red	16	69	1,868	9,427	-	-	1,884	9,496
Other	313	1,139	2,770	10,180	-	-	3,083	11,319
Striped bass	172	479	13	38	-	-	185	517
Swordfish	15	97	4,135	31,984	1,664	10,622	5,814	42,703
Tilefish	13	86	2,053	7,136	-	-	2,066	7,222

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1988 (1) - Continued

Species	Distance caught off U.S. Shores				International waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Fish - Continued:	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Tuna:								
Albacore	2	2	4,035	7,566	4,606	8,710	8,643	16,278
Bigeye	29	270	1,663	12,860	780	2,019	2,472	15,149
Bluefin	7	21	1,323	16,877	369	407	1,699	17,305
Skipjack	(2)	1	2,400	5,772	133,677	143,279	136,077	149,052
Yellowfin	225	885	11,558	39,353	115,357	141,964	127,140	182,202
Unclassified	44	9	310	537	-	-	354	546
Total	307	1,188	21,289	82,965	254,789	296,379	276,385	380,532
Whiting	264	186	15,870	8,435	-	-	16,134	8,621
Other marine finfishes	62,471	43,948	57,053	30,907	173	98	119,697	74,953
Other freshwater; finfishes	13,271	18,534	-	-	-	-	13,271	18,534
Total fish	1,440,458	1,221,626	2,689,018	971,417	259,709	312,472	4,389,185	2,505,515
Shellfish								
Clams:								
Hard	5,611	67,818	-	-	-	-	5,611	67,818
Ocean quahog	412	1,509	20,594	13,412	-	-	21,006	14,921
Soft	3,091	18,717	-	-	-	-	3,091	18,717
Surf	4,873	4,622	23,951	24,561	-	-	28,824	29,183
Other	1,225	4,142	-	-	-	-	1,225	4,142
Total	15,212	96,808	44,545	37,973	-	-	59,757	134,781
Crabs:								
Blue, hard	99,151	84,336	33	21	-	-	99,184	84,357
Dungeness	16,323	41,484	5,195	13,287	-	-	21,518	54,771
King	4,906	43,207	4,607	40,946	-	-	9,513	84,153
Snow (tanner)	3,936	19,191	62,436	117,861	-	-	66,372	137,052
Other	3,190	5,962	6,882	17,254	10	11	10,082	23,227
Total	127,506	194,180	79,153	189,369	10	11	206,669	383,560
Lobsters:								
American	19,009	121,181	3,039	23,896	16	159	22,064	145,236
Spiny	841	6,689	2,409	16,341	-	-	3,250	23,030
Oysters	14,466	78,498	-	-	-	-	14,466	78,498

See footnotes at end of table.

(Continued)

COMMERCIAL LANDINGS OF FISH AND SHELLFISH BY U.S. FISHING CRAFT: BY SPECIES, BY DISTANCE CAUGHT OFF U.S. SHORES AND IN INTERNATIONAL WATERS, 1988 (1) - Continued

Species	Distance caught off U.S. Shores				International waters (Includes catch off foreign coasts)		TOTAL	
	0 to 3 Miles (2)		3 to 200 Miles					
Shellfish - Continued	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Scallops:								
Bay	258	3,414	-	-	-	-	258	3,414
Calico	-	-	5,383	12,462	-	-	5,383	12,462
Sea	550	4,748	13,310	123,495	-	-	13,860	128,243
Shrimp:								
New England	285	681	2,793	6,816	-	-	3,078	7,497
South Atlantic	9,531	45,740	1,466	5,927	-	-	10,997	51,667
Gulf	58,908	185,518	43,508	228,951	-	-	102,416	414,469
Pacific	5,002	4,997	28,588	27,404	-	-	33,590	32,401
Total	73,726	236,936	76,355	269,098	-	-	150,081	506,034
Squid:								
Atlantic	4,814	3,493	16,386	12,727	-	-	21,200	16,220
Pacific	18,174	3,831	18,307	3,858	-	-	36,481	7,689
Other shellfish	47,045	54,743	5,129	10,643	-	-	52,174	65,386
Total shellfish et al.	321,601	804,521	264,016	699,862	26	170	585,643	1,504,553
Grand total, 1988	1,762,059	2,026,147	2,953,034	1,671,279	259,735	312,642	4,974,828	4,010,068
Grand total, 1987 (4)	1,841,557	1,651,965	2,819,395	1,628,962	274,144	207,882	4,935,067	3,556,882

(1) Landings are reported in round (live) weight for all items, except univalve and bivalve mollusks, such as clams, oysters, and scallops, which are reported in weight of meats (excluding the shell). The National Marine Fisheries Service estimated the distance from shore for Texas landings data collected by Texas Parks and Wildlife Department. Data excludes Mississippi River Drainage Area States.

(2) Includes landings from the Great Lakes and other inland waters.

(3) Less than $500.

(4) For individual species breakout see "Fisheries of the United States, 1987" pages 8-11.

NOTE:--Data are preliminary. Data include landings by U.S.-flag vessels at Puerto Rico and other ports outside the 50 States, and catches by U.S.-flag vessels unloaded onto foreign vessels within the U.S. EEZ (joint ventures). Therefore, they will not agree with "U.S. Commercial Landings" tables beginning on page one. Data do not include aquaculture products, except oysters and clams.

SUMMARY OF OYSTER LANDINGS, 1929-88 (1)

YEAR	NEW ENGLAND		MIDDLE ATLANTIC		CHESAPEAKE		SOUTH ATLANTIC	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
1929 (3)..	5,957,262	1,204,383	29,213,705	5,505,293	33,138,285	4,524,285	6,404,204	391,164
1930.....	9,431,968	1,747,100	21,516,320	4,076,864	36,723,800	4,351,917	5,895,739	322,527
1931.....	4,066,363	820,487	21,546,401	2,764,913	32,310,800	2,784,210	4,690,762	187,349
1932.....	7,386,432	1,202,327	15,026,476	1,763,506	27,889,600	2,015,435	4,600,974	137,337
1933.....	5,157,000	747,000	13,933,000	1,448,000	25,153,000	1,726,000	(4)	(4)
1934.....	(4)	(4)	(4)	(4)	35,786,000	2,303,000	5,271,000	319,000
1935.....	10,004,000	1,210,000	14,811,000	1,728,000	29,900,000	2,020,000	(4)	(4)
1936.....	(4)	(4)	(4)	(4)	30,314,000	2,464,000	6,384,000	446,000
1937.....	11,415,400	1,550,023	14,617,400	2,370,548	31,715,700	2,300,624	5,454,200	251,207
1938.....	8,637,300	1,554,150	16,144,100	2,696,183	33,412,300	2,369,669	3,644,700	189,069
1939.....	7,805,500	1,563,432	11,653,900	1,778,714	36,846,600	2,725,917	3,333,200	160,602
1940.....	5,990,200	1,051,224	13,983,200	2,181,905	37,457,100	3,217,247	3,366,600	162,378
1941.....	(4)	(4)	(4)	(4)	35,439,000	4,494,000	(4)	(4)
1942.....	2,856,000	749,000	12,106,000	3,435,000	28,722,000	5,221,000	(4)	(4)
1943.....	2,808,000	938,000	12,677,000	4,049,000	(4)	(4)	(4)	(4)
1944.....	1,856,000	816,000	13,125,000	6,493,000	29,847,000	9,060,000	(4)	(4)
1945.....	2,478,100	1,062,912	13,553,300	5,351,626	32,569,900	11,621,078	2,821,800	644,383
1946.....	2,050,000	939,000	(4)	(4)	33,355,000	10,283	(4)	(4)
1947.....	2,125,000	878,000	15,744,000	7,469,000	33,730,000	11,824,000	(4)	(4)
1948.....	1,652,000	882,000	15,790,000	8,194,000	34,403,000	11,785,000	(4)	(4)
1949.....	4,003,000	1,473,000	17,412,000	9,072,000	31,777,000	11,374,000	(4)	(4)
1950.....	4,727,600	1,681,155	18,169,600	9,608,735	29,953,500	11,094,772	3,033,500	981,961
1951.....	1,969,500	1,015,623	17,410,400	9,708,611	29,598,200	11,968,871	3,782,900	1,201,951
1952.....	2,209,300	1,053,905	16,767,000	9,115,404	34,417,600	14,876,975	4,111,600	1,243,680
1953.....	1,037,700	615,390	14,461,600	7,344,569	36,944,900	14,726,665	4,021,100	1,024,839
1954.....	734,700	481,172	13,375,900	7,497,323	41,587,800	18,860,250	3,809,900	1,025,626
1955.....	618,500	490,094	9,848,600	5,281,607	39,227,500	17,802,245	2,261,100	676,983
1956.....	505,300	437,119	8,464,800	4,807,370	37,064,100	18,692,542	3,656,400	1,049,188
1957.....	402,700	376,787	7,981,600	5,026,454	34,233,900	17,191,786	3,068,100	883,634
1958.....	274,400	318,850	4,295,900	3,379,391	37,530,400	20,793,964	2,650,900	765,707
1959.....	386,100	453,628	1,390,900	1,256,314	33,321,100	20,608,422	3,517,300	1,040,034
1960.....	498,400	623,345	1,153,400	1,184,834	27,110,100	19,309,170	4,119,700	1,552,278
1961.....	452,500	524,281	1,921,100	2,020,686	27,500,100	21,734,499	3,984,500	1,779,670
1962.....	294,100	370,801	2,362,900	2,562,691	19,937,500	15,956,201	3,848,900	1,724,669
1963.....	453,000	533,034	950,300	1,156,511	18,274,300	13,728,271	4,837,300	2,019,830
1964.....	194,400	326,178	1,355,900	1,366,431	22,097,900	15,805,701	3,526,900	1,507,982
1965.....	341,100	652,433	756,500	1,064,117	21,188,500	16,696,533	4,082,400	1,512,531
1966.....	408,000	848,918	916,100	1,167,419	21,231,300	14,542,519	3,658,200	1,576,230
1967.....	322,800	745,375	1,189,700	1,164,851	25,797,800	17,321,862	3,160,000	1,351,229
1968.....	195,000	456,000	1,538,000	1,492,000	22,679,000	15,260,000	2,965,000	1,527,000
1969.....	152,000	358,000	1,322,000	1,349,000	22,157,000	13,995,000	1,830,000	1,077,000
1970.....	190,000	403,000	1,413,000	1,764,000	24,668,000	15,080,000	1,626,000	974,000
1971.....	190,000	388,000	1,965,000	2,593,000	25,557,000	16,044,000	1,846,000	1,037,000
1972.....	129,000	293,000	3,335,000	4,249,000	24,066,000	15,317,000	1,868,000	1,106,000
1973.....	181,000	396,000	3,181,000	4,932,000	25,400,000	16,766,000	1,656,000	1,114,000
1974.....	644,000	1,295,000	2,739,000	4,939,000	25,021,000	17,552,000	1,841,000	1,214,000
1975.....	600,000	1,190,000	3,274,000	6,306,000	22,640,000	18,126,000	1,585,000	1,049,000
1976.....	201,000	450,000	3,566,000	6,461,000	20,964,000	21,748,000	1,704,000	1,215,000
1977.....	905,000	230,000	2,412,000	4,291,000	18,014,000	19,934,000	1,861,000	1,438,000
1978.....	1,129,500	3,254,842	2,414,000	4,426,408	22,460,200	24,865,360	2,101,612	1,821,519
1979.....	265,500	958,121	3,039,800	6,708,871	21,685,500	26,983,088	2,448,029	2,375,236
1980.....	991,000	3,589,784	2,542,600	5,989,693	22,791,100	29,323,120	2,289,672	2,376,798
1981.....	1,083,100	3,815,450	2,408,400	7,057,722	21,606,200	29,296,875	2,141,709	2,264,784
1982.....	1,126,100	4,814,114	2,360,400	8,239,321	17,524,700	25,768,326	2,659,460	2,312,578
1983.....	1,068,200	4,659,756	2,215,100	6,128,998	11,637,500	19,833,603	2,620,196	2,314,872
1984.....	1,961,700	8,903,175	1,614,400	5,257,527	12,364,000	26,201,124	2,499,049	2,636,833
1985.....	952,500	4,804,213	631,300	2,363,587	13,121,518	22,796,898	1,870,969	2,478,532
1986.....	968,000	6,939,662	369,800	1,735,343	13,742,039	29,122,608	1,519,546	2,923,004
1987.....	876,000	4,917,000	189,000	1,140,000	8,738,000	22,630,000	1,774,000	3,603,000
1988.....	945,000	4,673,000	324,000	1,752,000	4,987,000	14,161,000	1,391,000	3,448,000

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED)

SUMMARY OF OYSTER LANDINGS, 1929-88 (1) - CONTINUED

YEAR	GULF		PACIFIC COAST (2)		TOTAL	
	POUNDS	DOLLARS	POUNDS	DOLLARS	POUNDS	DOLLARS
1929 (3).....	14,604,653	1,280,976	745,560	417,976	90,063,669	13,324,077
1930.....	12,687,737	1,093,580	618,869	372,749	86,874,433	11,964,737
1931.....	10,184,698	607,031	1,411,458	361,348	74,210,482	7,525,338
1932.....	11,149,036	574,095	2,414,851	281,426	68,467,369	5,974,126
1933.....	(4)	(4)	3,129,000	330,000	47,372,000	4,251,000
1934.....	13,556,000	822,000	5,376,000	585,000	59,989,000	4,029,000
1935.....	(4)	(4)	5,592,338	683,000	60,307,338	5,641,000
1936.....	14,246,000	995,000	6,754,000	690,000	57,698,000	4,595,000
1937.....	24,184,200	1,443,504	8,239,900	787,548	95,626,800	8,703,454
1938.....	16,036,000	880,788	9,057,400	767,873	86,931,800	8,457,732
1939.....	24,379,500	1,279,979	8,987,800	681,689	93,006,500	8,190,333
1940.....	17,584,100	1,100,372	11,000,800	753,826	89,382,000	8,466,952
1941.....	(4)	(4)	12,591,000	1,118,000	48,030,000	5,612,000
1942.....	(4)	(4)	10,780,000	1,137,000	54,464,000	10,542,000
1943.....	(4)	(4)	7,982,000	3,280,000	23,467,000	8,267,000
1944.....	(4)	(4)	8,878,000	1,656,000	53,706,000	18,025,000
1945.....	13,969,600	4,601,243	10,234,600	1,863,928	75,627,300	25,145,170
1946.....	(4)	(4)	13,552,000	2,505,000	48,957,000	3,454,283
1947.....	(4)	(4)	11,485,000	2,149,000	63,084,000	22,320,000
1948.....	(4)	(4)	9,764,000	1,974,000	61,609,000	22,835,000
1949.....	13,211,000	4,839,000	8,374,000	2,132,000	74,777,000	28,890,000
1950.....	12,291,500	4,009,217	8,239,200	2,220,671	76,414,900	29,596,511
1951.....	11,519,000	3,181,228	8,709,600	1,993,484	72,989,600	29,069,768
1952.....	14,636,600	4,016,749	10,100,243	2,032,243	82,242,343	32,338,956
1953.....	12,835,000	3,562,036	10,417,400	1,777,601	79,717,700	29,051,100
1954.....	11,443,500	3,055,828	10,969,500	1,874,525	81,921,300	32,794,724
1955.....	13,880,900	3,740,393	11,681,400	2,483,151	77,518,000	30,474,473
1956.....	13,514,100	3,077,162	11,927,500	2,822,538	75,132,200	30,885,919
1957.....	14,306,000	3,691,401	11,661,900	2,235,202	71,654,200	29,405,264
1958.....	10,407,400	2,996,594	11,236,000	2,186,851	66,395,000	30,441,357
1959.....	13,722,300	3,806,707	12,371,700	2,318,994	64,709,400	29,484,099
1960.....	16,097,900	4,293,769	11,027,900	2,276,707	60,007,400	29,240,103
1961.....	18,238,700	5,124,827	10,206,600	2,020,224	62,303,500	33,204,187
1962.....	18,839,500	5,898,453	10,753,600	2,626,468	56,036,500	29,139,283
1963.....	24,138,100	7,186,320	9,789,600	2,482,030	58,442,600	27,105,996
1964.....	23,384,800	6,272,737	9,972,900	2,644,606	60,532,800	27,923,635
1965.....	19,154,700	5,711,158	9,163,200	2,228,382	54,686,400	27,865,154
1966.....	17,182,000	6,493,442	7,826,800	2,744,760	51,222,400	27,373,288
1967.....	21,747,600	8,485,234	7,738,800	3,171,331	59,956,700	32,239,882
1968.....	26,739,000	10,274,000	7,770,000	3,001,000	61,886,000	32,010,000
1969.....	19,764,400	8,145,105	6,973,000	2,612,000	52,198,400	27,536,105
1970.....	17,714,300	7,541,106	7,991,000	3,722,000	53,602,300	29,484,106
1971.....	20,264,300	9,207,384	8,114,000	4,758,000	57,936,300	34,027,384
1972.....	18,260,500	9,755,871	8,400,000	6,345,000	56,058,500	37,065,871
1973.....	14,914,000	9,713,000	6,599,000	6,066,000	51,931,000	38,987,000
1974.....	14,878,000	9,797,000	5,053,000	6,048,000	50,176,000	40,845,000
1975.....	19,295,000	10,860,000	5,833,000	7,454,000	53,227,000	44,985,000
1976.....	21,569,000	16,127,000	6,391,000	8,362,000	54,395,000	54,363,000
1977.....	19,670,000	19,027,000	7,226,000	10,648,000	50,088,000	55,568,000
1978.....	18,891,422	20,449,675	7,103,400	5,869,304	54,100,134	60,687,108
1979.....	15,460,599	17,837,617	7,460,900	6,878,966	50,360,328	61,741,899
1980.....	15,517,424	20,139,154	6,693,500	5,608,450	50,825,296	67,026,999
1981.....	19,366,484	27,706,000	6,006,900	4,540,186	52,612,793	74,681,017
1982.....	25,149,562	31,553,748	7,369,400	6,176,524	56,189,622	78,864,611
1983.....	29,165,296	37,557,336	7,341,800	6,018,393	54,048,092	76,512,958
1984.....	27,595,759	43,318,694	8,738,700	8,561,777	54,773,608	94,879,130
1985.....	26,509,032	40,891,738	7,795,600	8,820,501	50,880,919	82,155,469
1986.....	22,539,618	42,059,316	9,629,300	13,057,904	48,768,303	95,837,837
1987.....	18,380,000	46,035,000	9,850,000	14,098,000	39,807,000	92,423,000
1988.....	16,269,000	39,911,000	7,976,000	14,553,000	31,892,000	78,498,000

(1) DATA FOR 1978-88 ARE PRELIMINARY AND MAY CHANGE.
(2) DATA EXCLUDES ALASKA.
(3) THE LANDINGS OF OYSTERS ON THE EAST COAST OF FLORIDA HAVE BEEN INCLUDED WITH THE GULF DATA.
(4) DATA NOT AVAILABLE.
NOTE:--TOTAL FOR EARLIER YEARS INCLUDE ONLY AVAILABLE DATA AND THEREFORE MAY NOT BE COMPLETE.

SUMMARY OF OYSTER LANDINGS, BY SPECIES, 1929-88 (1)
(THOUSAND POUNDS)

YEAR	EASTERN				
	NEW ENGLAND	MIDDLE ATLANTIC	CHESAPEAKE	SOUTH ATLANTIC	GULF
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1929	5,957	29,214	33,138	(2) 6,404	(2) 14,605
1930	9,432	21,516	36,724	5,895	12,688
1931	4,066	21,546	32,311	4,691	10,185
1932	7,386	15,026	27,890	4,601	11,149
1933	5,157	13,933	25,153	(3)	(3)
1934	(3)	(3)	35,786	5,271	13,556
1935	10,004	14,811	29,900	(3)	(3)
1936	(3)	(3)	30,314	6,384	14,246
1937	11,416	14,617	31,716	5,454	24,184
1938	8,638	16,144	33,412	3,645	16,036
1939	7,805	11,653	36,847	3,333	24,380
1940	5,991	13,984	37,457	3,367	17,584
1941	(3)	(3)	35,439	(3)	(3)
1942	2,856	12,106	28,722	(3)	(3)
1943	2,808	12,677	(3)	(3)	(3)
1944	1,856	13,125	29,847	(3)	(3)
1945	2,479	13,553	32,570	2,822	13,970
1946	2,050	(3)	33,355	(3)	(3)
1947	2,125	15,744	33,730	(3)	(3)
1948	1,652	15,790	34,403	(3)	(3)
1949	4,003	17,412	31,777	(3)	13,121
1950	4,727	18,170	29,954	3,033	12,292
1951	1,970	17,410	29,598	3,783	11,519
1952	2,209	16,767	34,418	4,111	14,637
1953	1,038	14,462	36,946	4,019	12,836
1954	735	13,377	41,587	3,811	11,443
1955	619	9,848	39,227	2,260	13,881
1956	506	8,466	37,064	3,656	13,513
1957	405	7,981	34,234	3,069	14,307
1958	276	4,296	37,530	2,651	10,408
1959	387	1,392	33,322	3,516	13,721
1960	498	1,153	27,110	4,120	16,098
1961	453	1,921	27,500	3,984	18,240
1962	294	2,363	19,938	3,850	18,840
1963	452	951	18,274	4,837	24,139
1964	195	1,356	22,098	3,527	23,385
1965	340	757	21,188	4,082	19,155
1966	408	916	21,232	3,657	17,182
1967	323	1,190	25,798	3,160	21,748
1968	195	1,538	22,679	2,965	26,739
1969	152	1,322	22,157	1,830	19,764
1970	190	1,413	24,668	1,626	17,714
1971	190	1,965	25,557	1,846	20,264
1972	129	3,335	24,066	1,868	18,260
1973	181	3,181	25,400	1,656	14,914
1974	644	2,739	25,021	1,841	14,878
1975	600	3,274	22,640	1,585	19,295
1976	201	3,566	20,964	1,704	21,569
1977	905	2,412	18,014	1,861	19,670
1978	1,130	2,414	22,460	2,102	18,891
1979	266	3,040	21,686	2,448	15,461
1980	991	2,543	22,791	2,290	15,517
1981	1,083	2,408	21,606	2,142	19,366
1982	1,126	2,360	17,525	2,659	25,150
1983	1,068	2,215	11,638	2,620	29,165
1984	1,962	1,614	12,364	2,499	27,596
1985	952	631	13,122	1,871	26,509
1986	968	370	13,742	1,520	22,540
1987	876	189	8,738	1,774	18,380
1988	945	324	4,987	1,391	16,269

SEE FOOTNOTES AT END OF TABLE.

(CONTINUED ON NEXT PAGE)

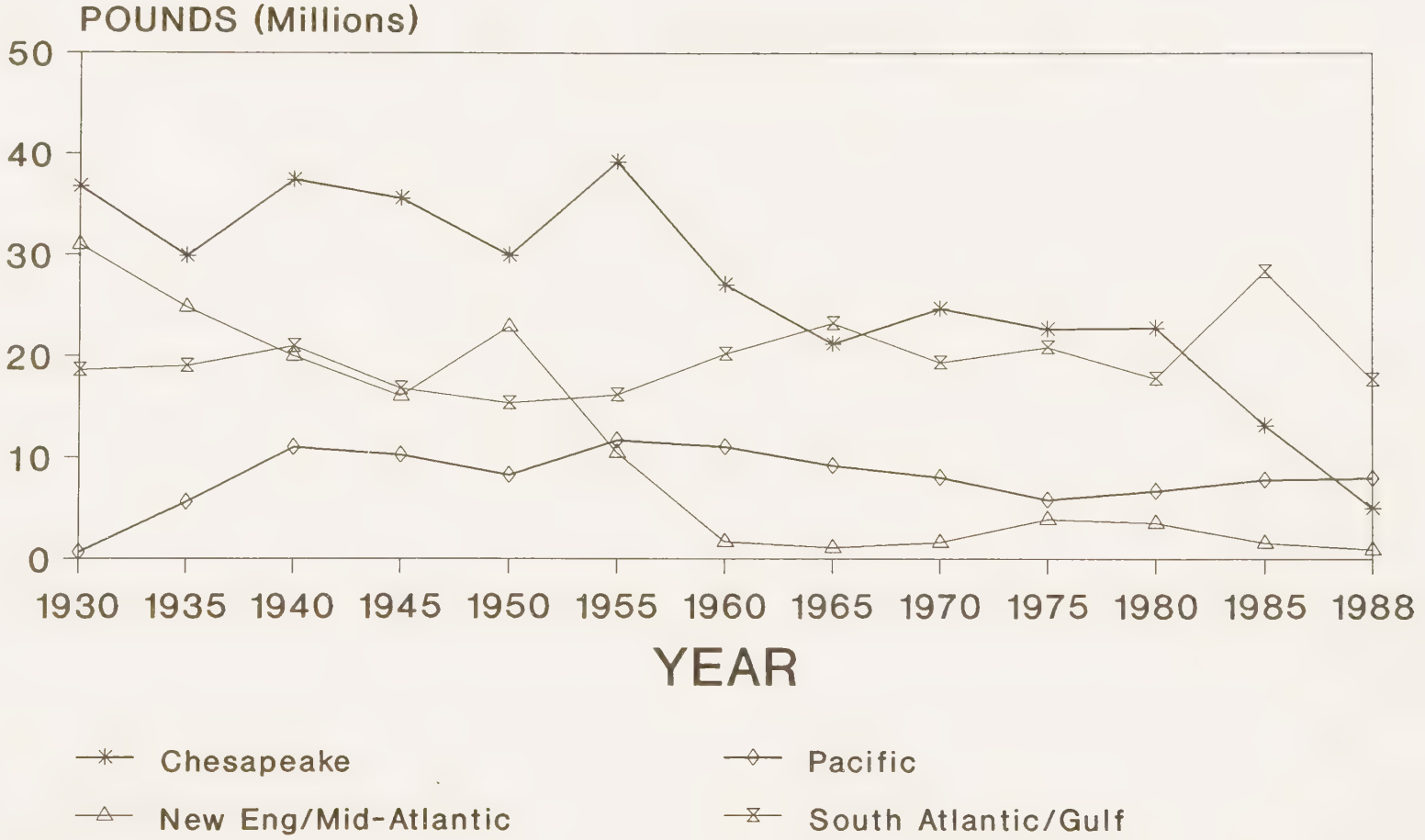
SUMMARY OF OYSTER LANDINGS, BY SPECIES, 1929-88 (1) - CONTINUED
(THOUSAND POUNDS)

YEAR	EASTERN - CONTINUED		PACIFIC	WESTERN	GRAND TOTAL
	WASHINGTON AND CALIFORNIA	TOTAL	WASHINGTON OREGON, AND CALIFORNIA	WASHINGTON OREGON, AND CALIFORNIA	
	QUANTITY	QUANTITY	QUANTITY	QUANTITY	QUANTITY
1929	53	89,371	66	627	90,064
1930	75	86,330	228	316	86,874
1931	172	72,971	1,034	205	74,210
1932	42	66,094	2,103	270	68,467
1933	60	(3)	2,843	226	47,372
1934	90	(3)	4,956	330	59,989
1935	65	(3)	5,527	338	60,307
1936	60	(3)	6,377	317	57,698
1937	68	87,455	7,891	281	95,627
1938	48	77,923	8,734	275	86,932
1939	24	84,042	8,717	247	93,005
1940	18	78,400	10,756	227	89,383
1941	18	(3)	12,313	260	48,030
1942	12	(3)	10,526	240	54,464
1943	12	(3)	7,791	175	23,467
1944	14	(3)	8,700	159	53,706
1945	9	65,403	10,074	151	75,628
1946	12	(3)	13,371	169	48,957
1947	19	(3)	11,320	146	63,084
1948	46	(3)	9,564	154	61,609
1949	7	(3)	8,164	203	74,777
1950	16	68,192	8,080	143	76,415
1951	25	64,305	8,597	88	72,990
1952	23	72,165	9,957	120	82,242
1953	18	69,319	10,283	117	79,719
1954	18	70,971	10,855	96	81,922
1955	20	65,855	11,602	58	77,515
1956	20	63,225	11,881	27	75,133
1957	17	60,013	11,614	31	71,658
1958	4	55,165	11,197	34	66,396
1959	1	52,339	12,328	43	64,710
1960	(4)	48,982	10,983	45	60,010
1961	15	52,113	10,154	38	62,305
1962	14	45,297	10,714	26	56,037
1963	14	48,667	9,746	31	58,444
1964	5	50,566	9,934	34	60,534
1965	8	45,531	9,115	40	54,686
1966	13	43,409	7,780	35	51,224
1967	13	52,232	7,682	44	59,958
1968	16	54,132	7,696	58	61,886
1969	17	45,243	6,916	40	52,199
1970	17	45,628	7,915	59	53,602
1971	14	49,838	8,048	52	57,938
1972	9	47,667	8,362	29	56,058
1973	1	45,333	6,576	22	51,931
1974	2	45,125	5,030	21	
1975	4	47,398	5,807	22	53,227
1976	6	48,010	6,354	31	54,395
1977	4	42,866	7,209	13	50,088
1978	(5)	46,997	7,103	(5)	54,100
1979	(5)	42,901	7,461	(5)	50,362
1980	(5)	44,132	6,694	(5)	50,826
1981	(5)	46,605	6,007	(5)	52,612
1982	(5)	48,820	7,369	(5)	56,189
1983	(5)	46,706	7,342	(5)	54,048
1984	(5)	46,035	8,739	(5)	54,774
1985	(5)	43,085	7,796	(5)	50,881
1986	(5)	39,140	9,629	(5)	48,769
1987	(5)	29,957	9,850	(5)	39,807
1988	(5)	23,916	7,976	(5)	31,892

(1) DATA FOR 1978-88 ARE PRELIMINARY AND MAY CHANGE. (2) THE LANDINGS OF OYSTERS ON THE EAST COAST OF FLORIDA HAVE BEEN INCLUDED WITH THE GULF DATA. (3) DATA NOT AVAILABLE. (4) LESS THAN 500 POUNDS. (5) DATA HAS BEEN INCLUDED WITH PACIFIC OYSTERS.

NOTE:--TOTALS MAY NOT MATCH "SUMMARY OF OYSTER LANDINGS, BY REGIONS, 1929-88" DUE TO ROUNDING. DATA EXCLUDES ALASKA.

HISTORICAL OYSTER LANDINGS, BY REGIONS
1930 - 1988



JOINT VENTURE CATCHES BY U.S.-FLAG VESSELS, BY SPECIES, 1981-88

SPECIES	1981		1982		1983		1984	
	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Alewives	-	-	-	-	-	-	9	1
Atka mackerel	1,633	216	12,475	1,926	11,302	1,514	36,493	5,632
Cod	9,277	1,943	13,786	3,044	16,749	3,474	38,512	8,546
Flounders	21,980	3,391	26,649	3,997	36,958	5,287	54,372	7,605
Hake, Pacific (whiting)	-	-	(1)	(1)	(1)	(1)	(1)	(1)
Ocean perch	-	-	3	1	2,114	616	2,313	689
Mackerel, Atlantic	-	-	(1)	(1)	(1)	(1)	1,423	220
Pollock, Alaska	58,950	8,448	128,886	15,954	283,104	26,083	444,256	41,591
Rockfishes	7	1	30	7	311	94	346	105
Sablefish	180	26	124	4	363	141	871	396
Whiting	-	-	(1)	(1)	(1)	(1)	(1)	(1)
Squid:								
Illex	(1)	(1)	(1)	(1)	8,344	1,840	6,010	2,000
Loligo	(1)	(1)	(1)	(1)	2,332	1,646	760	395
Other fish (2)	47,598	6,980	72,691	11,468	73,371	10,555	79,192	11,862
Total	139,625	21,005	254,644	36,401	434,948	51,250	664,557	79,042

SPECIES	1985		1986		1987		1988	
	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars	Metric tons	Thousand dollars
Alewives	-	-	(1)	(1)	22	(3)	-	-
Atka mackerel	39,938	6,109	31,991	4,828	30,030	4,775	19,619	3,571
Cod	36,373	7,799	66,015	14,449	59,521	15,334	111,526	30,429
Flounders	179,663	24,833	215,878	28,847	224,250	33,272	330,118	53,763
Hake, Pacific (whiting)	(1)	(1)	81,639	8,736	105,997	11,653	135,781	14,660
Ocean perch	281	56	273	72	556	173	-	-
Mackerel, Atlantic	3,788	584	(1)	(1)	8,012	1,058	5,685	760
Pollock, Alaska	614,337	59,730	904,111	95,294	1,057,315	134,302	826,564	116,102
Rockfishes	70	14	215	57	320	100	2,103	705
Sablefish	94	30	434	137	123	37	51	14
Whiting	-	-	65	9	5	(3)	-	-
Squid:								
Illex	2,540	595	(1)	(1)	3,140	628	(1)	(1)
Loligo	1,082	599	(1)	(1)	993	745	-	-
Other fish (2)	33,060	3,971	9,766	2,470	510	56	20,738	1,086
Total	911,226	104,320	1,310,387	154,899	1,490,794	202,133	1,452,185	221,090

(1) Confidential data.
(2) Includes alewives, Atlantic mackerel, butterfish, Pacific and red hakes, menhaden, sea herring, whiting, squid, and other miscellaneous fish unless shown separately.
(3) Less than $500.

DATA COLLECTION. While data on commercial fisheries have been collected for many years, detailed statistical information on marine recreational fishing is also required to support a variety of fishery management and development purposes. These include the objectives of the Magnuson Fishery Conservation and Management Act, Public Law 94-265, as amended. However, the lack of a continuous or systematic collection of marine recreational fishery data had prevented the accomplishment of these goals. Therefore, NMFS began a new comprehensive Marine Recreational Fishery Statistical Survey (MRFSS) in 1979. Surveys have been conducted in the following areas and years:

Atlantic and Gulf, 1979 through 1988
Pacific, mid-1979 through 1988
Western Pacific, 1979 through 1981
Caribbean, 1979, 1981

Preliminary estimates of catch and trips from the MRFSS for the Atlantic, Gulf, and Pacific coast for 1988 are presented in the tables below. Summary graphs for 1979-1988 catch and trips are also shown. The survey is being conducted in 1989 along the Atlantic, Gulf, and Pacific coasts.

These survey use an intercept survey of fishermen in the field and an independent telephone survey of households. Each component survey provides certain information that is combined to produce estimates of recreational catch, fishing effort and participation. Estimates are generated by subregion or state, species, mode and area of fishing. In addition, information on catch rates and fish lengths and weights is obtained.

The MRFSS is only one of several NMFS efforts to obtain data on recreational fisheries. Specialized surveys on particular fisheries or to obtain socio-economic data are also conducted by NMFS.

DATA TABLES. The MRFSS catch data show the total number of fish caught for twenty of the most frequently caught species groups in each survey area. Total number caught includes those fish brought ashore in whole form which were available for identification, weighing, and measuring as well as those not available for identification. This latter category includes those fish used for bait, discarded, filleted or released alive. Each fisheries group may contain one or more species, genera, or families.

Several tables show the distribution of total catch by subregion, fishing area and mode. The fishing areas are: ocean 3 miles or less from land, ocean more than 3 miles from land, and inland (sounds, river, bays). However, ocean data for the Gulf coast of Florida are reported as 10 miles or less from land and more than 10 miles from land.

The fishing modes are: shore (man-made structures and beach/bank from previous surveys), party/charter boat, and private/rental boat. However, partyboats were not sampled in the South Atlantic and Gulf subregions, so party/charter estimates include only charterboats in these areas.

The fishing trip table indicates the estimated number of trips by coastal residents (generally residing within 25 miles of the coast), non-coastal residents of the subregion bordering saltwater, and non-residents.

The 1988 survey did not include Texas or January and February period for Atlantic coast states north of North Carolina. Pacific coast salmon fishing trips and catches were not included as a result of a cooperative arrangement with the Pacific coast states. These states had ongoing salmon data collection efforts which estimated a Pacific coast total salmon catch of approximately 1.2 million fish in 1986. The data presented below will be finalized in separate marine recreational fishery reports to be published later this year.

PRELIMINARY 1988 MRFSS DATA. The U.S. marine recreational finfish catch in 1988 (excluding Alaska, Hawaii, and Pacific coast salmon) was an estimated 372.0 million fish. These fish weighed approximately 612.8 million pounds and were taken on an estimated 79.7 million fishing trips. The estimated number of U.S. marine recreational fishermen has been relatively stable over the last few years at 17 million. Excluding catches of freshwater and industrial species (such as anchovies and menhaden), the marine recreational catch comprised approximately 20 percent of the total U.S. finfish landings of species used for food in 1988.

The Atlantic and Gulf coasts accounted for approximately 86 percent of the total U.S. marine recreational finfish catch by number. Eighty-four percent of the estimated U.S. trips were made on the Atlantic and Gulf coasts.

Approximately 17 percent of the total U.S. catch by number was made in the Exclusive Economic Zone (EEZ), the principal area of NMFS management authority. However, for some species (e.g., red snapper) over 70 percent of the catch was made in the EEZ.

The private/rental boat mode accounted for 68 percent of the total U.S. marine recreational finfish catch in number. Shore mode catches were 23 percent of the total and party/charter catches (excluding South Atlantic and Gulf partyboats) were 9 percent of the total.

Atlantic and Gulf. In terms of number of fish, spotted seatrout was the most frequently caught species on the Atlantic and Gulf coasts in 1988. Other frequently caught species in 1988 were summer flounder, Atlantic croaker and bluefish. Top-ranked species in each subregion in 1988 were scup in the North Atlantic, summer flounder in the Mid-Atlantic, spot in the South Atlantic, and spotted seatrout in the Gulf of Mexico. The Gulf (40 percent) and Middle Atlantic (32 percent) subregions accounted for the highest numbers of Atlantic and Gulf coast fishes.

The inland, ocean 3 miles or less from shore, and ocean 10 miles or less from shore areas accounted for approximately 84 percent of the Atlantic and Gulf coasts catch in number. The remaining 16 percent of the catch in number was from the EEZ.

Seventy-one percent of the Atlantic and Gulf coast catches was taken in the private/rental boat mode in 1988. However, other modes were important for particular species such as king mackerel from the charter boat mode and kingfishes from the shore mode.

Coastal residents accounted for 73 percent of the Atlantic and Gulf trips made in 1988. Non-residents accounted for an additional 22 percent of the trips. Total trips in the South Atlantic exceeded all other subregions. This distribution of trips was similar to previous years.

Pacific. The catch in number of Pacific mackerel was the highest of any species on the Pacific coast in 1988. Top-ranked species groups in each subregion were Pacific mackerel in Southern California, rockfishes in Northern California and Washington, and black rockfish in Oregon. Southern California accounted for 56 percent of the Pacific coast catch in number.

The ocean 3 miles or less from shore area had the highest catch in number (49 percent) on the Pacific coast in 1988. The Pacific coast portion of the catch in the ocean more than 3 miles from shore (21 percent) was similar to the 16 percent for the Atlantic and Gulf coasts EEZ.

The overall catch among fishing modes was more evenly distributed on the Pacific coast than on the Atlantic and Gulf coasts. Percentage catches in number of fish were 50 percent for private/rental boats, 27 percent for shore, and 23 percent for party/charter boats.

The percentage of trips by coastal residents (89 percent) was higher on the Pacific coast than the Atlantic and Gulf coasts (73 percent). Forty-eight percent of the Pacific coast trips in 1988 were in the Southern California subregion. Considering that an additional 32 percent of the trips were made in the Northern California subregion, 80 percent of the non-salmon Pacific coast trips in 1988 were made in California.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND SUBREGION, ATLANTIC AND GULF COASTS, JANUARY 1988 - DECEMBER 1988

SPECIES GROUP	NORTH ATLANTIC	MID-ATLANTIC	SOUTH ATLANTIC	GULF OF MEXICO	TOTAL
	THOUSANDS				
HERRINGS	388	1,250	808	5,754	8,201
SALTWATER CATFISHES	*	40	2,582	18,474	21,096
BLACK SEA BASS	331	10,241	2,994	5,138	18,704
BLUEFISH	2,996	9,215	3,567	1,081	16,858
RED SNAPPER	*	*	276	770	1,046
SCUP	6,620	2,672		*	9,293
PINFISH	*	*	3,835	10,011	13,846
SHEEPSHEAD	*		1,041	3,553	4,596
SPOTTED SEATROUT	*	634	2,506	20,360	23,500
WEAKFISH		7,763	682		8,447
SAND SEATROUT	*	*		2,732	2,734
SPOT	*	5,900	6,391	161	12,451
KINGFISHES	*	348	3,234	1,449	5,031
ATLANTIC CROAKER	*	9,324	4,301	6,684	20,309
RED DRUM	*		1,293	4,995	6,296
MULLETS	*	43	2,856	3,350	6,250
KING MACKEREL	*		619	269	908
SUMMER FLOUNDER	707	18,842	1,357	*	20,906
WINTER FLOUNDER	3,497	10,734	*	*	14,231
OTHER FISHES	16,819	25,001	19,366	44,932	106,118
TOTAL	31,360	102,036	57,710	129,716	320,822

NOTE: AN UNDERSCORE (_) DENOTES LESS THAN THIRTY THOUSAND. HOWEVER, THE NUMBER IS INCLUDED IN ROW AND COLUMN TOTALS. AN ASTERISK (*) DENOTES NONE REPORTED. FIGURES FOR THE GULF OF MEXICO DO NOT INCLUDE THE RECREATIONAL CATCH FOR TEXAS. FIGURES FOR THE SOUTH ATLANTIC AND GULF OF MEXICO DO NOT INCLUDE CATCHES FOR PARTYBOATS. ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND SUBREGION, PACIFIC COAST, JANUARY 1988 - DECEMBER 1988

SPECIES GROUP	SOUTHERN CALIFORNIA	NORTHERN CALIFORNIA	OREGON	WASHINGTON	TOTAL
	THOUSANDS				
PACIFIC HERRING	*	*	219	222	442
SURF SMELT	*	241	272	1,104	1,616
SMELTS, OTHER					53
WALLEYE POLLOCK	*	*	*	357	357
JACKSMELT	595	339		*	935
KELP BASS	2,163		*	*	2,163
BARRED SAND BASS	4,222	*	*	*	4,222
WHITE CROAKER	2,273	1,046	*	*	3,319
QUEENFISH	677		*	*	679
WALLEYE SURFPERCH	244	161	33		438
REDTAIL SURFPERCH	*	143	43	—	207
BARRED SURFPERCH	214	55	*	*	269
PACIFIC BONITO	920	*	*	*	920
PACIFIC MACKEREL	5,419	76	*		5,495
BLACK ROCKFISH		432	488	165	1,086
BLUE ROCKFISH	236	903	49		1,208
BOCCACIO	1,174	325		—	1,499
OLIVE ROCKFISH	151	43	*	*	194
ROCKFISHES, OTHER	3,176	3,732	165	1,192	8,265
OTHER FISHES	7,390	5,871	1,097	3,487	17,846
TOTAL	28,878	13,391	2,373	6,573	51,215

NOTE: AN UNDERSCORE (_) DENOTES LESS THAN THIRTY THOUSAND. HOWEVER, THE NUMBER IS INCLUDED IN ROW AND COLUMN TOTALS. AN ASTERISK (*) DENOTES NONE REPORTED. FIGURES DO NOT INCLUDE SALMON CATCHES ESTIMATED BY STATE RECREATIONAL SURVEYS. ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND AREA OF FISHING, ATLANTIC AND GULF COASTS, JANUARY 1988 - DECEMBER 1988

SPECIES GROUP	OCEAN 3 MI OR LESS	OCEAN MORE THAN 3 MI	OCEAN 0-10 MI	OCEAN OVER 10 MI	INLAND	ALL AREAS
	THOUSANDS					
HERRINGS	827	82	1,820	41	5,432	8,201
SALTWATER CATFISHES	4,836	867	2,350	448	12,596	21,096
BLACK SEA BASS	2,832	5,511	2,341	2,184	5,836	18,704
BLUEFISH	5,526	3,352	613	95	7,273	16,858
RED SNAPPER	106	522	54	231	133	1,046
SCUP	2,436	613	*	*	6,244	9,293
PINFISH	1,374	216	4,827	424	7,004	13,846
SHEEPSHEAD	758	78	1,060	75	2,625	4,596
SPOTTED SEATROUT	2,871	1,392	5,673	595	12,970	23,500
WEAKFISH	1,808	1,607	*	*	5,031	8,447
SAND SEATROUT	543	132	392		1,667	2,734
SPOT	4,232	93	106	_	8,020	12,451
KINGFISHES	2,537		634	53	1,780	5,031
ATLANTIC CROAKER	4,233	2,34_	501		13,228	20,309
RED DRUM	575	111	709	32	4,868	6,296
MULLETS	897		1,318		3,995	6,250
KING MACKEREL	202	486	137	54		908
SUMMER FLOUNDER	6,737	2,034	*	*	12,13_	20,906
WINTER FLOUNDER	1,291	491	*	*	12,450	14,231
OTHER FISHES	20,666	17,334	18,468	10,448	39,203	106,118
TOTAL	65,286	37,309	41,004	14,704	162,517	320,822

NOTE: "OCEAN 0-10 MI" AND "OCEAN OVER 10 MI" REFERS ONLY TO THE FLORIDA GULF COAST WHERE STATE JURISDICTION EXTENDS TO THREE MARINE LEAGUES, APPROXIMATELY TEN NAUTICAL MILES. THE TOTAL OCEAN ESTIMATE IS ADDITIVE ACROSS THE FOUR AREAS. AN UNDERSCORE (_) DENOTES LESS THAN THIRTY THOUSAND. HOWEVER, THE NUMBER IS INCLUDED IN ROW AND COLUMN TOTALS. AN ASTERISK (*) DENOTES NONE REPORTED. ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND AREA OF FISHING, PACIFIC COAST, JANUARY 1988 - DECEMBER 1988

SPECIES GROUP	OCEAN 3 MI OR LESS	OCEAN MORE THAN 3 MI	INLAND	ALL AREAS
	THOUSANDS			
PACIFIC HERRING		*	415	442
SURF SMELT	24_	*	1,375	1,616
SMELTS, OTHER	33	*		53
WALLEYE POLLOCK		*	35_	357
JACKSMELT	52_		408	935
KELP BASS	1,627	44_	91	2,163
BARRED SAND BASS	2,708	1,182	332	4,222
WHITE CROAKER	1,952	613	755	3,319
QUEENFISH	534		142	679
WALLEYE SURFPERCH	297	_	141	438
REDTAIL SURFPERCH	116		86	207
BARRED SURFPERCH	258	_		269
PACIFIC BONITO	564	325	31_	920
PACIFIC MACKEREL	3,267	1,883	346	5,495
BLACK ROCKFISH	734	177	175	1,086
BLUE ROCKFISH	958	215	34	1,208
BOCCACIO	1,176	104	219	1,499
OLIVE ROCKFISH	121	68		194
ROCKFISHES, OTHER	3,251	3,725	1,28_	8,265
OTHER FISHES	6,735	1,976	9,136	17,846
TOTAL	25,122	10,722	15,371	51,215

NOTE: AN UNDERSCORE (_) DENOTES LESS THAN THIRTY THOUSAND. HOWEVER, THE NUMBER IS INCLUDED IN ROW AND COLUMN TOTALS. AN ASTERISK (*) DENOTES NONE REPORTED. FIGURES DO NOT INCLUDE THE CATCH OF SALMON ESTIMATED BY STATE RECREATIONAL SURVEYS. ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND FISHING MODE, ATLANTIC AND GULF COASTS, JANUARY 1988 - DECEMBER 1988

SPECIES GROUP	SHORE	PARTY/ CHARTER BOAT	PRIVATE/ RENTAL BOAT	ALL MODES
	THOUSANDS			
HERRINGS	1,309		6,884	8,201
SALTWATER CATFISHES	5,021	130	15,945	21,096
BLACK SEA BASS	3,143	2,246	13,315	18,704
BLUEFISH	4,016	1,683	11,158	16,858
RED SNAPPER	95	274	677	1,046
SCUP	1,136	1,601	6,556	9,293
PINFISH	6,844	30	6,971	13,846
SHEEPSHEAD	1,540		3,046	4,596
SPOTTED SEATROUT	1,697	653	21,150	23,500
WEAKFISH	208	826	7,412	8,447
SAND SEATROUT	600		2,128	2,734
SPOT	6,690	118	5,643	12,451
KINGFISHES	2,982		2,048	5,031
ATLANTIC CROAKER	3,843	378	16,088	20,309
RED DRUM	933	99	5,263	6,296
MULLETS	2,829	33	3,388	6,250
KING MACKEREL		241	640	908
SUMMER FLOUNDER	2,285	2,357	16,264	20,906
WINTER FLOUNDER	1,567	2,856	9,808	14,231
OTHER FISHES	25,567	8,160	72,393	106,118
TOTAL	72,333	21,709	226,780	320,822

NOTE: AN UNDERSCORE (_) DENOTES LESS THAN THIRTY THOUSAND. HOWEVER, THE NUMBER IS INCLUDED IN ROW AND COLUMN TOTALS. AN ASTERISK (*) DENOTES NONE REPORTED. PARTY/CHARTER BOAT ESTIMATES DO NOT INCLUDE CATCHES FOR PARTYBOATS IN THE SOUTH ATLANTIC AND GULF. ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

ESTIMATED TOTAL NUMBER OF FISH CAUGHT BY MARINE RECREATIONAL FISHERMEN BY SPECIES GROUP AND FISHING MODE, PACIFIC COAST, JANUARY 1988 - DECEMBER 1988

SPECIES GROUP	SHORE	PARTY/ CHARTER BOAT	PRIVATE/ RENTAL BOAT	ALL MODES
	THOUSANDS			
PACIFIC HERRING	276		165	442
SURF SMELT	1,464	151		1,616
SMELTS, OTHER	46		-	53
WALLEYE POLLOCK		161	194	357
JACKSMELT	870		62	935
KELP BASS	160	487	1,516	2,163
BARRED SAND BASS	107	2,199	1,916	4,222
WHITE CROAKER	711	379	2,229	3,319
QUEENFISH	668			679
WALLEYE SURFPERCH	375	*-	64	438
REDTAIL SURFPERCH	190	*		207
BARRED SURFPERCH	268	*	-	269
PACIFIC BONITO	57	258	606	920
PACIFIC MACKEREL	657	1,591	3,247	5,495
BLACK ROCKFISH	101	308	677	1,086
BLUE ROCKFISH	105	479	624	1,208
BOCCACIO	1,365	68	67	1,499
OLIVE ROCKFISH		79	109	194
ROCKFISHES, OTHER	407	3,849	4,009	8,265
OTHER FISHES	5,944	1,864	10,039	17,846
TOTAL	13,776	11,887	25,552	51,215

NOTE: AN UNDERSCORE (_) DENOTES LESS THAN THIRTY THOUSAND. HOWEVER, THE NUMBER IS INCLUDED IN ROW AND COLUMN TOTALS. AN ASTERISK (*) DENOTES NONE REPORTED. FIGURES DO NOT INCLUDE THE CATCH OF SALMON ESTIMATED BY STATE RECREATIONAL SURVEYS. ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

ESTIMATED NUMBER OF FISHING TRIPS BY MARINE RECREATIONAL FISHERMEN BY SUBREGION AND AREA OF RESIDENCE, ATLANTIC, GULF AND PACIFIC COASTS, JANUARY 1988 - DECEMBER 1988

SUBREGION	TRIPS BY COASTAL RESIDENTS	TRIPS BY NON-COASTAL RESIDENTS	NON-RESIDENT TRIPS	ALL TRIPS
	THOUSANDS			
NORTH ATLANTIC.....	5,043	616	1,955	7,615
MID-ATLANTIC.....	14,677	617	4,208	19,502
SOUTH ATLANTIC.....	14,879	1,343	4,117	20,339
GULF OF MEXICO (1).....	14,744	588	4,498	19,829
TOTAL (2).....	49,343	3,164	14,778	67,285
SOUTHERN CALIFORNIA.....	5,424	83	489	5,996
NORTHERN CALIFORNIA.....	3,506	290	143	3,940
OREGON.....	863	35	117	1,016
WASHINGTON.....	1,256	89	117	1,463
TOTAL (3).....	11,049	497	866	12,415
GRAND TOTAL	60,392	3,661	15,644	79,700

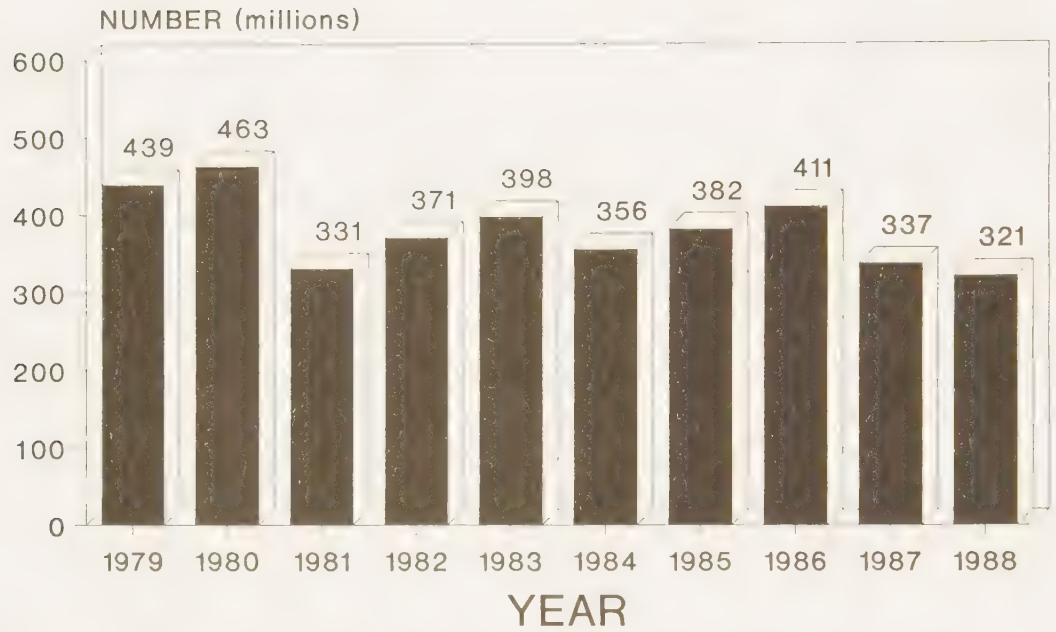
(1) EXCLUDES TEXAS DATA.
(2) EXCLUDES JANUARY/FEBRUARY TRIPS FROM MAINE THRU VIRGINIA AND PARTYBOAT TRIPS FROM THE SOUTH ATLANTIC AND GULF SUBREGIONS.
(3) EXCLUDES PACIFIC COAST SALMON FISHING TRIPS.
NOTE: ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

ESTIMATED NUMBER OF FISHING TRIPS BY MARINE RECREATIONAL FISHERMEN BY SUBREGION AND MODE OF FISHING, ATLANTIC, GULF AND PACIFIC COASTS, JANUARY 1988 - DECEMBER 1988

SUBREGION	SHORE	PARTY/ CHARTER BOAT	PRIVATE/ RENTAL BOAT	ALL MODES
	THOUSANDS			
NORTH ATLANTIC.....	3,483	460	3,672	7,615
MID-ATLANTIC.....	5,299	2,147	12,056	19,502
SOUTH ATLANTIC.....	11,116	519	8,703	20,339
GULF OF MEXICO (1).....	8,527	337	10,965	19,829
TOTAL (2).....	28,425	3,463	35,396	67,285
SOUTHERN CALIFORNIA.....	2,473	1,195	2,328	5,996
NORTHERN CALIFORNIA.....	2,066	340	1,534	3,940
OREGON.....	326	50	640	1,016
WASHINGTON.....	323	74	1,066	1,463
TOTAL (3).....	5,188	1,659	5,568	12,415
GRAND TOTAL	33,612	5,121	40,964	79,700

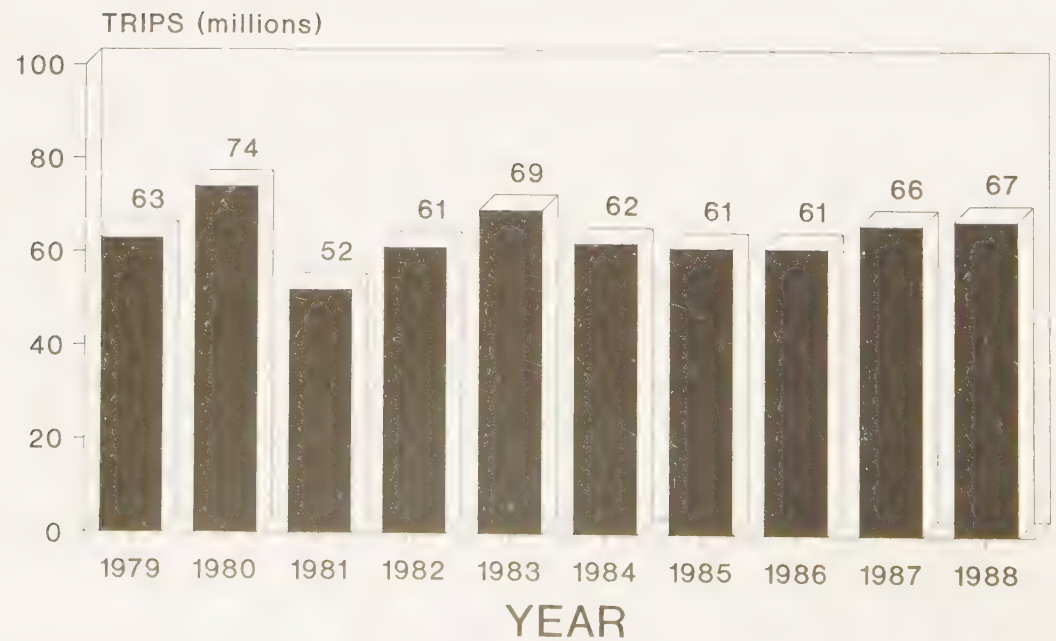
(1) EXCLUDES TEXAS DATA.
(2) EXCLUDES JANUARY/FEBRUARY TRIPS FROM MAINE THRU VIRGINIA AND PARTYBOAT TRIPS FROM THE SOUTH ATLANTIC AND GULF SUBREGIONS.
(3) EXCLUDES PACIFIC COAST SALMON FISHING TRIPS.
NOTE: ROW AND COLUMN TOTALS MAY NOT ADD DUE TO ROUNDING.

MARINE RECREATIONAL FISHERIES CATCH ATLANTIC AND GULF COASTS 1979 - 1988



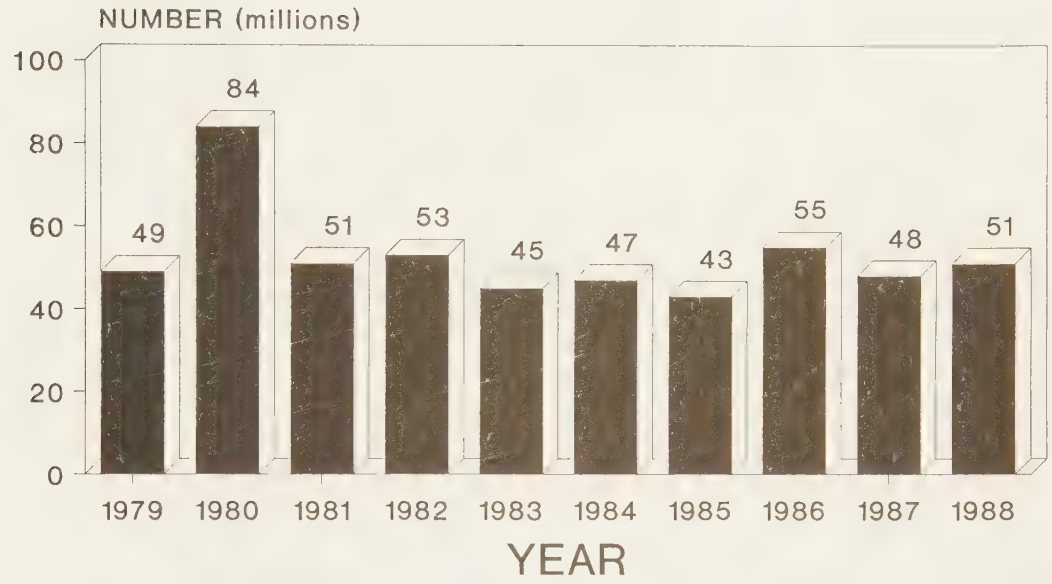
Note: 1987 & 1988 data are preliminary.

MARINE RECREATIONAL FISHERIES TRIPS ATLANTIC AND GULF COASTS 1979 - 1988



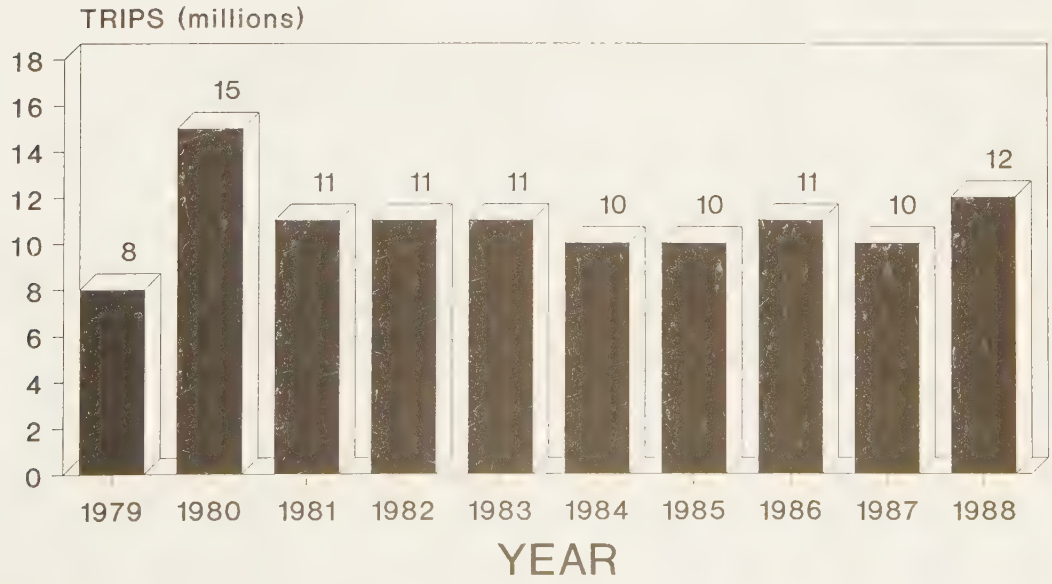
Note: 1987 & 1988 data are preliminary.

MARINE RECREATIONAL FISHERIES CATCH
PACIFIC COAST
1979 - 1988



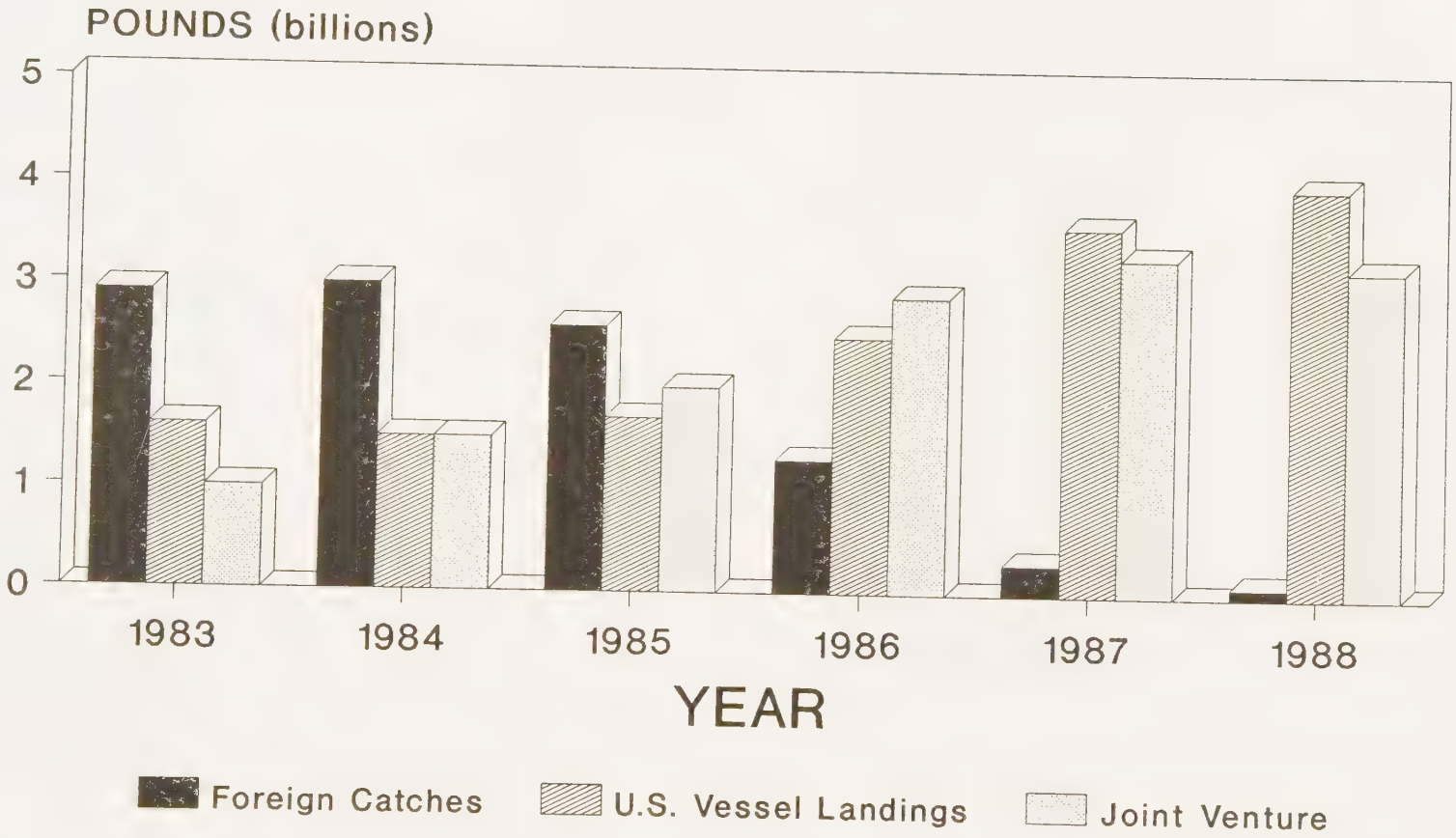
Data for 1979 are for July thru Dec.
Data for 1980-88 are for Jan. thru Dec.
1987 & 1988 data are preliminary.

MARINE RECREATIONAL FISHING TRIPS
PACIFIC COAST
1979 - 1988



Data for 1979 are for July thru Dec.
Data for 1980-88 are for Jan. thru Dec.
1987 & 1988 data are preliminary.

COMMERCIAL CATCHES IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ) 1983 - 1988



ALL FOREIGN COUNTRIES: CATCH IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ), BY CONTINENT AND COUNTRY, 1988

Continent and Country	North Atlantic (1)	Washington, Oregon, and California	Alaska			Grand total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska	
	Metric tons, round weight					
Europe:						
European Economic Community,						
Netherlands	12,381.3	-	-	-	-	12,381.3
Other:						
German Democratic Republic	21,104.5	-	-	-	-	21,104.5
Poland	9,768.2	18,338.2	-	-	-	28,106.4
Total	43,254.0	18,338.2	-	-	-	61,592.2

(1) Cape Hatteras, North Carolina, northward.

Note:--Excludes tunas and prohibited species. For further information see text on page iv FOREIGN CATCH IN U.S. EEZ. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ), BY CONTINENT AND COUNTRY, 1987

Continent and Country	North Atlantic (1)	Washington, Oregon, and California	Alaska			Grand total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska	
	Metric tons, round weight					
Europe:						
European Economic Community:						
Italy	33.2	-	-	-	-	33.2
Netherlands	10,928.4	-	-	-	-	10,928.4
Other:						
German Democratic Republic	18,553.3	-	-	-	-	18,553.3
Poland	-	48,975.4	-	-	-	48,975.4
Asia:						
China	-	5.0	-	-	-	5.0
Japan	-	-	-	67,436.5	67,436.5	67,436.5
Republic of Korea	-	1,412.7	-	1,614.4	1,614.4	3,027.1
Grand Total	29,514.9	50,393.1	-	69,050.9	69,050.9	148,958.9

(1) Cape Hatteras, North Carolina, northward.

Note:--Excludes tunas and prohibited species. For further information see text on iv FOREIGN CATCH IN U.S. EEZ. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ), BY SPECIES AND AREA, 1988

Species	North Atlantic (1)	Washington, Oregon, and California	Alaska			Grand total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska	
	Metric tons, round weight					
Finfish						
Butterfish	(2)	-	-	-	-	(2)
Flounders, Pacific (flatfish)	-	2.5	-	-	-	2.5
Hake:						
Atlantic:						
Red	(2)	-	-	-	-	(2)
Silver (whiting)	4.5	-	-	-	-	4.5
Pacific (whiting)	-	18,041.0	-	-	-	18,041.0
Herrings, river (alewives)	74.0	-	-	-	-	74.0
Jack mackerel	-	48.5	-	-	-	48.5
Mackerel, Atlantic	42,878.7	-	-	-	-	42,878.7
Ocean perch, Pacific	-	2.5	-	-	-	2.5
Rockfishes	-	149.1	-	-	-	149.1
Sablefish	-	26.9	-	-	-	26.9
Other finfish	293.4	67.7	-	-	-	361.1
Total fish	43,250.6	18,338.2	-	-	-	61,588.8
Shellfish et al.						
Squid, Atlantic:						
Short-finned	(2)	-	-	-	-	(2)
Long-finned	3.4	-	-	-	-	3.4
	3.4	-	-	-	-	3.4
Grand total	43,254.0	18,338.2	-	-	-	61,592.2

(1) Cape Hatteras, North Carolina, northward. (2) Included with other finfish.

Note:--Excludes tunas and prohibited species. For further information see text on page iv FOREIGN CATCH IN U.S. EEZ. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

ALL FOREIGN COUNTRIES: CATCH IN THE U.S. EXCLUSIVE ECONOMIC ZONE (EEZ), BY SPECIES AND AREA, 1987

Species	North Atlantic (1)	Washington, Oregon, and California	Alaska			Grand total
			Gulf of Alaska	Eastern Bering Sea and Aleutian Islands	Total Alaska	
	Metric tons, round weight					
Finfish						
Atka mackerel	-	-	-	0.3	0.3	0.3
Butterfish	(2)	-	-	-	-	(2)
Cod, Pacific	-	-	-	54,373.8	54,373.8	54,373.8
Flounders, Pacific (flatfish)	-	1.6	-	7,429.8	7,429.8	7,431.4
Hake:						
Atlantic, silver (whiting)	3.1	-	-	-	-	3.1
Pacific (whiting)	-	49,655.7	-	-	-	49,655.7
Herrings, river (alewives)	81.5	-	-	-	-	81.5
Jack mackerel	-	320.6	-	-	-	320.6
Mackerel, Atlantic	29,293.7	-	-	-	-	29,293.7
Ocean perch, Pacific	-	3.3	-	5.2	5.2	8.5
Pollock, Alaska	-	-	-	3,595.9	3,595.9	3,595.9
Rockfishes	-	218.8	-	7.3	7.3	226.1
Sablefish	-	29.7	-	32.8	32.8	62.5
Other finfish	136.3	163.4	-	2,629.7	2,629.7	2,929.4
Total fish	29,514.6	50,393.1	-	68,074.8	68,074.8	147,982.5
Shellfish et al.						
Snails (meats)	-	-	-	881.6	881.6	881.6
Squid:						
Atlantic, Long-finned	0.3	-	-	-	-	0.3
Pacific	-	-	-	94.5	94.5	94.5
Total shellfish	0.3	-	-	976.1	976.1	976.4
Grand total	29,514.9	50,393.1	-	69,050.9	69,050.9	148,958.9

(1) Cape Hatteras, North Carolina, northward. (2) Included with other finfish.

Note:--Excludes tunas and prohibited species. For further information see text on page iv FOREIGN CATCH IN U.S. EEZ. Catches are for calendar year only. Some fishing years overlap 2 calendar years.

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1986-88

Country and species	1986	1987	1988
	Metric tons, round weight		
European Economic Community:			
Italy:			
Butterfish	83.5	-	-
Hake:			-
Red	(1)	-	-
Silver (whiting)	332.9	3.1	-
Mackerel, Atlantic	232.1	15.1	-
Other finfish	571.0	14.7	-
Squid:			
Short-finned	79.7	-	-
Long-finned	2,735.2	0.3	-
Total	4,034.4	33.2	-
Netherlands:			
Butterfish	-	(1)	-
Hake, silver (whiting)	-	(1)	-
Herring, river (alewives)	-	55.1	5.3
Mackerel, Atlantic	-	10,789.7	12,347.3
Other finfish	-	83.6	27.5
Squid, Long-finned	-	(1)	1.2
Total	-	10,928.4	12,380.1
Spain:			
Butterfish	37.9	-	-
Hake:			
Red	0.9	-	-
Silver (whiting)	200.9	-	-
Herring, river (alewives)	(1)	-	-
Mackerel, Atlantic	15.9	-	-
Other finfish	174.4	-	-
Squid:			
Short-finned	169.0	-	-
Long-finned	2,126.6	-	-
Total	2,725.6	-	-
Total, European Economic Community	6,760.0	10,961.6	12,380.1

See footnotes at end of table.

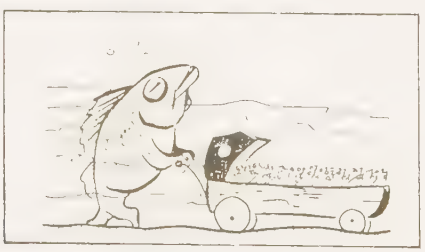
(Continued)

NORTH ATLANTIC: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1986-88 - Continued

Country and species	1986	1987	1988
	Metric tons, round weight		
German Democratic Republic:			
Butterfish	3.7	(1)	(1)
Hake:			
Red	-	-	(1)
Silver (whiting)	12.9	(1)	3.8
Herring, river (alewives)	14.7	26.4	28.3
Mackerel, Atlantic	18,895.5	18,488.9	20,909.9
Other finfish	99.1	38.0	161.1
Squid, Long-finned	(1)	(1)	1.4
Total	19,025.9	18,553.3	21,104.5
Japan:			
Butterfish	(2)	-	-
Hake, Silver (whiting)	(2)	-	-
Herring, river (alewives)	(2)	-	-
Mackerel, Atlantic	(2)	-	-
Other finfish	(2)	-	-
Squid:			
Short-finned	(2)	-	-
Long-finned	(2)	-	-
Total	(2)	-	-
Poland:			
Butterfish	-	-	(1)
Hake, Silver (whiting)	-	-	0.7
Herring, river (alewives)	-	-	40.4
Mackerel, Atlantic	-	-	9,621.5
Other finfish	-	-	104.8
Squid:			
Long-finned	-	-	0.8
Total	-	-	9,768.2
Grand total	25,785.9	29,514.9	43,254.0

(1) Included with other finfish. (2) Included with other finfish for Gulf of Alaska.

Note:--Excludes tunas and prohibited species. For further information see text on page iv FOREIGN CATCH IN U.S. EEZ. Catches are for calendar year only. Some fishing years overlap 2 calendar years.



FOREIGN CATCH

WASHINGTON, OREGON, AND CALIFORNIA:
FOREIGN CATCH, BY COUNTRY AND SPECIES, 1986-88

Country and species	1986	1987	1988
	Metric tons, round weight		
China:			
Hake, Pacific (whiting)	-	4.9	-
Jack mackerel	-	0.1	-
Total	-	5.0	-
Poland:			
Flounders (flatfish)	1.8	1.0	2.5
Hake, Pacific (whiting)	69,861.0	48,277.6	18,041.0
Jack mackerel	549.3	308.7	48.5
Ocean perch, Pacific	1.4	3.3	2.5
Rockfishes	193.5	202.4	149.1
Sablefish	7.4	29.7	26.9
Other finfishes	138.4	152.7	67.7
Total	70,752.8	48,975.4	18,338.2
Republic of Korea:			
Flounders (flatfish)	-	0.6	-
Hake, Pacific (whiting)	-	1,373.2	-
Jack mackerel	-	11.8	-
Rockfishes	-	16.4	-
Other finfishes	-	10.7	-
Total	-	1,412.7	
Grand total	70,752.8	50,393.1	18,338.2

Note:--Excludes tunas and prohibited species. Catches are for calendar year only.

GULF OF ALASKA: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1986-88

Country and species	1986	1987	1988
	Metric tons, round weight		
Japan:			
Atka mackerel	(1)	-	-
Cod, Pacific	15,210.5	-	-
Flounders (flatfish) (2)	70.5	-	-
Ocean perch, Pacific (3)	0.3	-	-
Pollock, Alaska	113.9	-	-
Rockfishes	4.0	-	-
Sablefish (3)	1.4	-	-
Other finfish (4)	450.2	-	-
Total	15,850.8	-	-

(1) Less than 0.1 of a metric ton.
(2) May include yellowfin sole.
(3) Became a prohibited species during 1985.
(4) A small catch from the North Atlantic has been included with other finfish.

Note:--Excludes tunas and prohibited species. Catches are for calendar year only.

FOREIGN CATCH

EASTERN BERING SEA AND ALEUTIAN ISLANDS: FOREIGN CATCH, BY COUNTRY AND SPECIES, 1986-88

Country and species	1986	1987	1988
	-Metric tons, round weight-		
China:			
Cod, Pacific	182.5	-	-
Flounders (1)	363.4	-	-
Pollock, Alaska	1,443.1	-	-
Rockfishes	0.4	-	-
Sablefish	0.1	-	-
Other finfish	12.2	-	-
Total	2,001.7	-	-
Japan:			
Atka mackerel	1.1	0.3	-
Cod, Pacific	35,616.1	54,145.6	-
Flounders (1)	66,801.3	6,407.6	-
Ocean perch, Pacific	14.3	5.1	-
Pollock, Alaska	262,422.7	3,283.2	-
Rockfishes	13.6	7.3	-
Sablefish	73.1	32.7	-
Other finfish	3,230.1	2,578.6	-
Snails (meats)	493.0	881.6	-
Squid, unclassified	819.2	94.5	-
Total	369,484.5	67,436.5	-
Poland:			
Atka mackerel	0.1	-	-
Cod, Pacific	8.4	-	-
Flounders (1)	4.5	-	-
Ocean perch, Pacific	0.2	-	-
Pollock, Alaska	6,831.2	-	-
Rockfishes	0.1	-	-
Sablefish	(2)	-	-
Other finfish	1.1	-	-
Squid, unclassified	7.4	-	-
Total	6,853.0	-	-
Republic of Korea:			
Atka mackerel	5.2	-	-
Cod, Pacific	4,053.1	228.2	-
Flounders (1)	10,796.2	1,022.2	-
Ocean perch, Pacific	3.4	0.1	-
Pollock, Alaska	81,632.4	312.7	-
Rockfishes	3.8	-	-
Sablefish	35.6	0.1	-
Other finfish	801.2	51.1	-
Squid, unclassified	3.7	-	-
Total	97,334.6	1,614.4	-
Grand total	475,673.8	69,050.9	-

(1) May include yellowfin sole. (2) Less than 0.1 metric ton.
Note:--Excludes tunas and prohibited species. Catches are for calendar year only.

U.S. AND WORLD COMMERCIAL FISHERY CATCHES, 1953-87

Year	U.S. commercial catch and exvessel value			World commercial catch				
	Published by U.S. (excludes weight of mollusk shells)	Published by FAO (1)	Exvessel Value	Fresh-water	Marine			Grand total
					Peruvian anchovy	Other (2)	Total	
	Million metric ton		Billion dollars	Million metric tons				
	Live weight			Live weight				
1953.....	2.0	2.7	0.4	3.0	0.0	22.9	22.9	25.9
1954.....	2.2	2.8	0.4	3.2	0.0	24.4	24.4	27.6
1955.....	2.2	2.8	0.3	3.4	0.0	25.5	25.5	28.9
1956.....	2.4	3.0	0.4	3.5	0.1	27.2	27.3	30.8
1957.....	2.2	2.8	0.4	3.9	0.3	27.5	27.8	31.7
1958.....	2.2	2.7	0.4	4.5	0.8	28.0	28.8	33.3
1959.....	2.3	2.9	0.4	5.1	2.0	29.8	31.8	36.9
1960.....	2.2	2.8	0.4	5.6	3.5	31.1	34.6	40.2
1961.....	2.4	2.9	0.4	5.7	5.3	32.6	37.9	43.6
1962.....	2.4	3.0	0.4	5.8	7.1	31.9	39.0	44.8
1963.....	2.2	2.8	0.4	5.9	7.2	33.5	40.7	46.6
1964.....	2.1	2.6	0.4	6.2	9.8	35.9	45.7	51.9
1965.....	2.2	2.7	0.4	7.0	7.7	38.5	46.2	53.2
1966.....	1.9	2.5	0.5	7.3	9.6	40.4	50.0	57.3
1967.....	1.8	2.4	0.4	7.2	10.5	42.7	53.2	60.4
1968.....	1.9	2.5	0.5	7.4	11.3	45.2	56.5	63.9
1969.....	1.9	2.5	0.5	7.6	9.7	45.4	55.1	62.7
1970.....	2.2	2.8	0.6	8.4	13.1	46.6	59.7	65.6
1971.....	2.3	2.9	0.7	9.0	11.2	48.3	59.5	66.1
1972.....	2.2	2.8	0.7	5.7	4.8	53.7	58.5	62.0
1973.....	2.2	2.8	0.9	5.7	1.7	55.3	57.0	62.7
1974.....	2.3	2.8	0.9	5.8	4.0	56.7	60.7	66.5
1975.....	2.2	2.8	1.0	6.2	3.3	56.9	60.2	66.4
1976.....	2.4	3.0	1.3	5.9	4.3	59.6	63.9	69.8
1977.....	2.4	3.0	1.5	6.1	0.8	62.0	62.8	68.9
1978.....	2.7	3.4	1.9	5.8	1.2	63.6	64.8	70.6
1979.....	2.8	3.5	2.2	5.9	1.4	63.8	65.2	71.1
1980.....	2.9	3.6	2.2	6.2	0.7	65.1	65.8	72.0
1981.....	2.7	3.8	2.4	6.6	1.2	67.0	68.2	74.8
1982.....	2.9	4.0	2.4	8.5	1.8	66.9	68.7	77.2
1983.....	2.9	4.3	2.4	9.3	0.1	68.2	68.3	77.6
1984.....	2.9	4.8	2.3	9.9	0.1	73.7	73.8	83.7
1985.....	2.8	4.8	2.3	10.6	1.0	74.4	75.4	86.0
1986.....	2.7	5.0	2.8	11.4	4.9	76.1	81.0	92.4
1987.....	3.1	5.8	3.1	12.5	2.1	78.4	80.5	93.0

(1) Includes U.S.-flag vessel landings at foreign ports, transfer of catches onto foreign vessels within the U.S. EEZ (joint ventures), and the weight of mollusk shells. (2) Includes diadromous, salmon and other anadromous fishes, and catadromous fishes such as eels.

Note:--There are 2,204.6 pounds in a metric ton. Prior to 1970, the world commercial catch of whales and seals is excluded. For the years 1970-1986, data for marine mammals and aquatic plants are excluded. There is a revision in the total world commercial catch back to 1970 as published in FAO Yearbook of Fishery Statistics, Vol. 48 and 50. However, prior to 1974, data on freshwater and marine catches were not revised. Therefore, for the years 1970 to 1973, data will not add to the grand total.

Source:--Fishery Statistics of the United States; Fisheries of the United States; Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics; Rome; for various issues.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY COUNTRIES, 1983-87
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Country	1983(1)	1984(1)	1985(1)	1986(1)	1987
	Thousand metric tons Live weight				
Japan	11,255	12,021	11,409	11,976	11,841
USSR	9,817	10,593	10,523	11,260	11,160
China	5,213	5,927	6,779	8,000	9,346
United States (2)	4,257	4,832	4,786	4,971	5,755
Chile	3,978	4,499	4,804	5,572	4,814
Peru	1,569	3,317	4,136	5,614	4,584
India	2,507	2,862	2,824	2,922	2,893
Republic of Korea	2,400	2,477	2,650	3,103	2,876
Indonesia	2,205	2,276	2,345	2,457	2,630
Thailand	2,260	2,135	2,225	2,536	2,168
Philippines	1,976	1,934	1,865	1,916	1,989
Norway	2,836	2,466	2,119	1,898	1,929
Korea (3)	1,600	1,650	1,700	1,700	1,700
Denmark	1,863	1,846	1,762	1,848	1,696
Iceland	839	1,535	1,680	1,657	1,633
Canada	1,348	1,282	1,418	1,507	1,453
Mexico	1,064	1,104	1,226	1,305	1,419
Spain	1,413	1,440	1,483	1,434	1,393
United Kingdom	840	836	891	850	955
Republic of South Africa	582	554	601	629	902
Vietnam	757	776	808	825	871
France	782	770	850	870	844
Bangladesh	724	754	774	794	815
Brazil	754	835	838	832	793
Burma	588	610	644	687	686
Ecuador	372	883	1,087	1,003	679
Poland	735	719	683	645	671
Turkey	557	567	578	583	626
Malaysia	741	665	632	616	608
Argentina	416	315	406	420	559
Italy	546	573	583	560	554
Namibia	365	187	186	201	520
Morocco	454	467	473	598	491
Venezuela	231	259	265	314	453
Netherlands	506	432	504	455	435
New Zealand	282	295	305	345	431
Pakistan	343	372	408	416	428
All others	8,641	8,691	8,782	9,084	9,434
Total	77,616	83,756	86,032	92,403	93,034

(1) Revised.
(2) Includes the weight of clam, oyster, scallop, and other mollusk shells. This weight is not included in U.S. landings statistics shown elsewhere.
(3) Data estimated by FAO.

Note:--Statistics for mariculture, aquaculture, and other kinds of fish farming, etc., except for the United States are included in country totals. Statistics on quantities caught by recreational fishermen are excluded.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1987; Vol. 64, Rome.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY CONTINENT, 1983-87
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Contintent	1983(1)	1984(1)	1985(1)	1986(1)	1987
	Thousand metric tons Live weight				
Asia	35,085	37,045	37,711	40,697	41,700
Europe	12,797	13,116	12,947	12,693	12,600
South America	7,573	10,377	11,806	14,043	12,236
USSR	9,817	10,593	10,523	11,260	11,160
North and Central America	7,268	7,776	8,158	8,396	9,261
Africa	4,481	4,227	4,257	4,605	5,253
Oceania	595	622	630	709	824
Total	77,616	83,756	86,032	92,403	93,034

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1987; Vol. 64, Rome.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY MAJOR FISHING AREAS, 1983-87
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Area	1983(1)	1984(1)	1985(1)	1986(1)	1987
	Thousand metric tons Live weight				
Marine Areas:					
Pacific Ocean and adjacent areas	38,255	43,729	45,720	51,019	49,407
Atlantic Ocean and adjacent areas	25,611	25,348	24,921	24,974	26,084
Indian Ocean and adjacent areas	4,457	4,739	4,766	4,970	5,014
Total	68,323	73,816	75,407	80,963	80,505
Inland waters:					
Asia	5,884	6,391	7,106	7,714	8,381
Africa	1,556	1,612	1,553	1,676	1,738
USSR	856	881	906	927	988
South America	328	337	327	352	581
Europe	401	413	429	450	469
North and Central America	244	274	274	286	335
Oceania	24	32	30	35	37
Total	9,293	9,940	10,625	11,440	12,529
Grand total	77,616	83,756	86,032	92,403	93,034

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1987; Vol. 64, Rome.

WORLD COMMERCIAL CATCH OF FISH, CRUSTACEANS, AND MOLLUSKS, BY SPECIES GROUPS, 1983-87
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Species group	1983(1)	1984(1)	1985(1)	1986(1)	1987
	Thousand metric tons Live weight				
Herring, sardines, anchovies, etc.	17,503	19,620	21,100	23,967	22,226
Cods, hakes, haddocks, etc.	11,223	12,258	12,450	13,534	13,703
Miscellaneous marine and diadromous fishes	8,761	8,972	9,281	10,025	10,167
Freshwater fishes	7,586	8,024	8,745	9,490	10,142
Jacks, mullets, sauries, etc.	7,967	8,562	8,013	7,182	7,866
Mollusks	5,960	6,364	6,441	6,546	7,524
Redfish, basses, congers, etc.	4,984	5,448	5,208	5,994	5,732
Crustaceans	3,227	3,250	3,503	3,920	3,975
Mackerel, snoeks, cutlassfishes, etc.	3,674	4,268	3,828	4,018	3,648
Tunas, bonitos, billfishes, etc.	2,967	3,145	3,179	3,427	3,442
Flounders, halibuts, soles, etc.	1,125	1,191	1,348	1,315	1,279
Salmons, trouts, smelts, etc.	956	914	1,121	1,045	1,033
Shads, milkfishes, etc.	560	739	772	776	826
Sharks, rays, chimaeras, etc.	585	604	618	637	656
River eels	85	98	98	94	92
Sturgeons, paddlefishes, etc.	28	27	26	25	24
Miscellaneous	425	272	301	408	699
Total	77,616	83,756	86,032	92,403	93,034

(1) Revised.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1987; Vol. 64, Rome.

DISPOSITION OF WORLD COMMERCIAL CATCH, 1983-1987
(DOES NOT INCLUDE MARINE MAMMALS AND AQUATIC PLANTS)

Item	1983(1)	1984(1)	1985(1)	1986(1)	1987
	Percent of total				
Marketed fresh	19.0	18.4	18.7	20.8	21.8
Frozen	24.3	24.1	23.7	23.6	23.8
Canned	14.3	13.9	13.4	12.4	12.6
Cured	15.2	14.6	14.8	14.1	14.2
Reduce to meal and oil (2)	26.1	27.9	28.2	28.0	26.5
Miscellaneous purposes	1.1	1.1	1.2	1.1	1.1
Total	100.0	100.0	100.0	100.0	100.0

(1) Revised.
(2) Only whole fish destined for the manufacture of oils and meals is included. Raw material for reduction derived from fish primarily destined for marketing fresh, frozen, canned, cured, and miscellaneous purposes is excluded; such waste quantities are included under the other disposition channels.

Source:--Food and Agriculture Organization of the United Nations (FAO) -Yearbook of Fishery Statistics, 1987; Vol. 65, Rome.

WORLD IMPORTS AND EXPORTS OF SEVEN FISHERY COMMODITY GROUPS, BY LEADING COUNTRIES, 1984-87

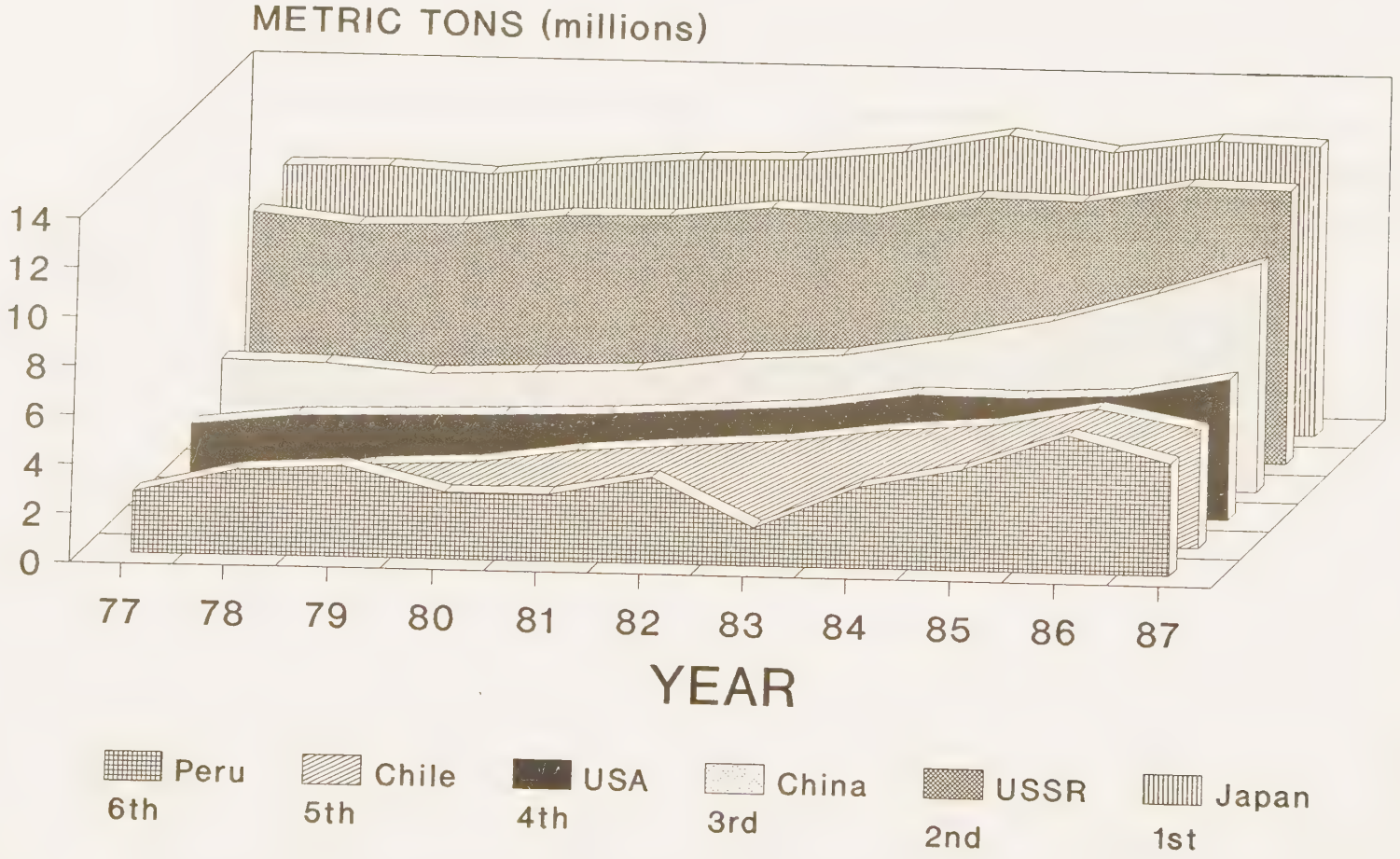
Country	1984(1)	1985(1)	1986(1)	1987
	Thousand U.S. dollars			
IMPORTS				
Japan	4,207,102	4,744,277	6,593,515	8,308,077
United States	3,702,490	4,051,794	4,748,692	5,662,329
France	975,596	1,039,848	1,510,431	2,022,470
Italy	742,066	984,990	1,264,513	1,738,226
United Kingdom	874,561	940,598	1,216,053	1,386,818
Spain	389,552	412,151	721,977	1,321,771
Fed. Republic of Germany	800,608	819,555	1,113,211	1,270,495
Denmark	326,692	370,442	596,060	842,476
Hong Kong	439,621	471,609	624,726	794,280
Belgium	298,778	304,024	425,923	529,941
Canada	373,051	355,939	433,087	511,901
Netherlands	288,218	308,449	387,935	509,430
Portugal	139,282	201,976	256,373	424,716
Sweden	257,376	245,222	333,934	404,897
Switzerland	188,971	193,346	264,921	332,827
Singapore	224,133	204,376	257,666	312,955
Australia	232,664	217,540	226,960	299,584
Thailand	85,813	138,312	283,658	267,149
Republic of Korea	68,044	89,775	117,079	212,497
Other Countries	2,556,565	2,465,008	2,817,872	3,356,167
Total	17,171,183	18,559,231	24,194,586	30,509,006
EXPORTS				
Canada	1,271,844	1,359,248	1,751,809	2,092,170
United States	1,002,932	1,162,372	1,480,990	1,836,451
Denmark	898,867	952,712	1,381,460	1,750,652
Republic of Korea	781,784	796,878	1,171,111	1,505,697
Norway	902,866	922,460	1,171,170	1,474,930
Thailand	632,940	675,063	1,011,896	1,261,066
Iceland	509,245	617,355	857,994	1,071,067
Netherlands	500,543	543,666	766,379	953,177
China (2)	321,956	366,920	645,813	912,476
Japan	881,965	819,840	897,851	889,828
United Kingdom	316,581	362,296	511,130	717,565
France	293,586	359,000	501,233	654,464
USSR	369,543	383,908	587,081	637,287
Chile	419,364	438,627	516,023	635,583
Mexico	437,371	378,299	457,410	569,914
Hong Kong	254,006	298,950	417,868	501,815
Ecuador	216,067	260,939	383,565	481,039
Spain	306,782	353,767	398,703	474,752
Indonesia	228,013	236,620	340,619	441,079
Other Countries	5,663,849	6,038,143	7,806,442	9,214,662
Total	16,210,104	17,327,063	23,056,547	28,075,674

(1) Revised. (2) Estimated by FAO.

Note:--Data on imports and exports cover the international trade of 176 countries or areas. The total value of exports is consistently less than the total value of imports, probably because charges for insurance, freight, and similar expenses were included in the import value but not in the export value. The seven fishery commodity groups covered by this table are: 1. Fish, fresh, chilled or frozen; 2. Fish, dried, salted, or smoked; 3. Crustaceans and mollusks, fresh, frozen, dried, salted, etc.; 4. Fish products and preparations, whether or not in airtight containers; 5. Crustacean and mollusk products and preparations, whether or not in airtight containers; 6. Oils and fats, crude or refined, of aquatic animal origin; and 7. Meals, solubles, and similar animal foodstuffs of aquatic animal origin.

Source:--Food and Agriculture Organization of the United Nations (FAO) - Yearbook of Fishery Statistics, 1987; Vol. 65, Rome.

WORLD COMMERCIAL CATCH BY LEADING COUNTRIES 1977 - 1987 (LIVE WEIGHT)



VALUE OF PROCESSED FISHERY PRODUCTS, 1987 AND 1988
(Processed from domestic catch and imported products)

Item	1987(1)		1988(2)	
	Thousand dollars	Percent of total	Thousand dollars	Percent of total
Edible:				
Fresh and frozen.....	4,041,403	67.9	3,561,876	66.3
Canned.....	1,476,479	24.8	1,384,992	25.8
Cured.....	136,058	2.3	93,558	1.7
Total edible.....	5,653,940	95.0	5,040,426	93.9
Industrial:				
Bait and animal food (canned).....	85,416	1.4	92,722	1.7
Fish meal, oil, and solubles.....	174,321	2.9	188,843	3.5
Other.....	37,524	0.6	46,737	0.9
Total industrial.....	297,261	5.0	328,302	6.1
Grand total.....	5,951,201	100.0	5,368,728	100.0

(1) Revised.
(2) Preliminary. May not add due to rounding.

Note:--Value is based on selling price at the plant. Processed Fishery Products, Annual Summary, 1988, Current Fishery Statistics No. 8803 will provide additional information.

FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP

U.S. PRODUCTION OF FISH STICKS, FISH PORTIONS, AND BREADED SHRIMP, 1979-88

YEAR	Fish sticks		Fish portions		Breaded shrimp	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1979.....	96,050	99,790	*396,089	429,164	98,993	277,460
1980.....	88,429	88,762	344,249	388,430	83,182	254,283
1981.....	88,972	96,754	328,407	388,722	85,177	282,026
1982.....	91,178	105,516	304,104	385,894	94,391	337,604
1983.....	86,928	115,556	335,270	410,858	100,106	*386,222
1984.....	92,441	109,677	333,212	413,789	94,522	369,415
1985.....	96,239	111,265	330,362	367,734	95,734	354,808
1986.....	87,289	94,290	341,628	393,956	107,834	358,442
1987.....	98,927	*142,946	323,746	*445,631	108,937	371,798
1988.....	80,148	113,868	286,733	399,521	80,086	245,131

(1) *Record. Records--1973 fish sticks production: 127,156,000 lb; 1973 breaded shrimp production: 111,922,000 lb.

Note:--Processed Fishery Products, Annual Summary, 1988, Current Fishery Statistics No. 8803 will provide additional information.

PROCESSED FISHERY PRODUCTS

FISH FILLETS AND STEAKS

PRODUCTION OF FRESH AND FROZEN FILLETS AND STEAKS, BY SPECIES, 1987 AND 1988

Species	1987 (1)		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Fillets:				
Anglerfish	3,465	8,026	4,763	13,368
Bluefish	263	469	371	594
Cod	77,505	165,398	61,540	135,573
Cusk	1,139	2,146	911	1,669
Dolphin	975	2,973	1,295	3,729
Flounders	57,690	168,234	50,887	156,068
Groundfish mixed	13,313	30,362	13,873	31,757
Groupers	1,669	9,134	2,377	10,891
Haddock	8,988	32,249	8,144	30,231
Hake, Atlantic	1,985	4,193	1,617	3,041
Halibut	248	999	529	1,749
Lingcod	669	1,058	1,260	2,102
Ocean perch:				
Atlantic	2,650	5,810	2,091	5,307
Pacific	1,092	1,821	2,657	3,393
Ocean pout	963	1,154	656	863
Pollock:				
Atlantic	18,421	30,226	13,569	20,851
Alaska	74,650	81,874	109,993	110,376
Rockfishes	17,864	27,119	31,616	45,785
Sablefish	2,466	3,083	2,408	3,747
Salmon	6,341	23,101	3,422	15,715
Sea trout	595	1,135	704	1,352
Shark	9,896	18,267	12,446	19,381
Snapper:				
Red	417	2,412	244	1,441
Unclassified	744	4,000	499	2,955
Spanish mackerel	46	71	92	162
Swordfish	1,031	6,966	976	5,879
Tuna	1,893	6,991	2,998	12,544
Whitefish	368	657	312	1,098
Wolffish	208	379	201	437
Yellow perch	822	3,126	612	2,996
Yellow pike	278	1,149	213	732
Unclassified	29,578	50,956	28,991	61,360
Total	338,232	695,538	362,267	707,146
Steaks:				
Halibut	7,932	25,587	11,216	34,605
King mackerel	40	180	82	229
Salmon	6,207	18,243	4,516	16,185
Shark	220	469	550	1,388
Swordfish	1,328	7,144	2,074	10,096
Unclassified	2,122	5,877	3,554	7,251
Total	17,849	57,500	21,992	69,754
Grand total	356,081	753,038	384,259	776,900

(1) Revised.

Note:--The following amounts of frozen fish blocks were produced from the fillets reported above: 13,558,676 lb valued at $21,198,749 in 1987, and 44,601,863 lb valued at $43,982,769 in 1988. Final data for 1988 will be published in Processed Fishery Products, Annual Summary, 1988, Current Fishery Statistics No. 8803.

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, BY SPECIES, 1987 AND 1988

Species	Pounds per case	1987			1988		
		Standard cases	Thousand pounds	Thousand dollars	Standard cases	Thousand pounds	Thousand dollars
For human consumption:							
Fish:							
Gefiltefish	48	491,696	23,601	20,623	509,860	24,473	19,750
Herring	48	156,652	7,519	12,632	89,999	4,320	6,032
Mackerel	45	324,810	14,616	5,777	401,764	18,079	8,777
Roe and caviar	48	10,501	504	2,730	9,886	475	3,019
Salmon:							
Natural	48	2,191,787	105,206	261,924	1,826,351	87,665	216,834
Specialties	48	3,318	159	806	2,188	105	675
Sardines, Maine	23.4	560,510	13,116	22,420	796,181	18,631	24,082
Tuna:							
Solid	19.5	7,421,969	144,728	310,861	6,336,445	123,561	293,860
Chunk	19.5	26,102,421	508,997	705,360	24,315,070	474,144	665,906
Flakes and grated	18	14,334	258	222	26,456	476	443
Total tuna	--	33,538,724	653,983	1,016,443	30,677,971	598,181	960,209
Specialties	48	118	5	44	129	6	46
Other	48	308,002	14,784	12,896	215,506	10,344	11,259
Total fish	--	37,586,118	833,493	1,356,295	34,529,835	762,279	1,250,683
Shellfish:							
Clam and clam products: (1)							
Whole and minced	15	1,282,086	19,231	35,516	1,826,696	27,400	42,076
Chowder and juice	30	2,959,179	88,775	45,796	3,036,222	91,087	48,506
Specialties	48	182,101	8,741	6,585	189,733	9,107	6,938
Crabs, natural	19.5	10,264	200	936	18,270	356	1,745
Lobster meat and specialties	48	17,840	856	1,030	20,590	988	991
Oyster, specialties	48	78,225	3,755	2,497	63,799	3,062	2,059
Shrimp:							
Natural (2)	6.75	649,160	4,382	22,429	663,019	4,475	24,898
Specialties	48	19,136	919	988	26,413	1,268	1,774
Other	48	97,314	4,671	4,407	155,659	7,472	5,322
Total shellfish	--	5,295,305	131,530	120,184	6,000,401	145,215	134,309
Total for human consumption	--	42,881,423	965,023	1,476,479	40,530,236	907,494	1,384,992
For bait and animal food:							
Animal food	48	4,593,849	220,505	84,599	4,642,373	222,834	92,205
Salmon eggs	48	2,843	136	817	1,784	86	517
Total for bait and animal food	48	4,596,692	220,641	85,416	4,644,157	222,920	92,722
Grand total	--	47,478,115	1,185,664	1,561,895	45,174,393	1,130,414	1,477,714

(1) "Cut out" or "drained" weight of can contents are given for whole or minced clams, and net contents for other clam products.

(2) Drained weight.

Note:--Final figures will be published in Processed Fishery Products, Annual Summary, 1988, Current Fishery Statistics No. 8803.

PROCESSED FISHERY PRODUCTS

CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED TUNA, 1987-88

Item	Pounds per case	1987		1988	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Albacore:					
Solid	19.5	6,291	277,470	5,895	278,745
Chunk	19.5	881	34,873	829	38,419
Flakes and grated	18	2	52	(1)	(1)
Total	--	7,174	312,395	6,724	317,164
Lightmeat:					
Solid	19.5	1,131	33,391	442	15,115
Chunk	19.5	25,222	670,487	23,486	627,487
Flakes and grated	18	12	170	26	443
Total	--	26,365	704,048	23,954	643,045
Grand total	--	33,539	1,016,443	30,678	960,209

(1) Included with lightmeat.

PRODUCTION OF CANNED SHRIMP, BY AREA, 1987-88

Area	Pounds per case	1987(1)		1988	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Gulf States	6.75	552	19,338	550	20,327
Pacific States	6.75	97	3,091	113	4,571
Total	6.75	649	22,429	663	24,898

(1) Revised.

PRODUCTION OF CANNED SALMON, 1987-88

Item	Pounds per case	1987(1)		1988	
		Thousand standard cases	Thousand dollars	Thousand standard cases	Thousand dollars
Chinook	48	4	426	2	319
Chum	48	167	13,701	184	25,650
Pink	48	1,363	132,744	1,372	138,016
Sockeye	48	640	112,885	230	46,381
Coho	48	18	2,168	38	6,468
Total	48	2,192	261,924	1,826	216,834

(1) Revised.

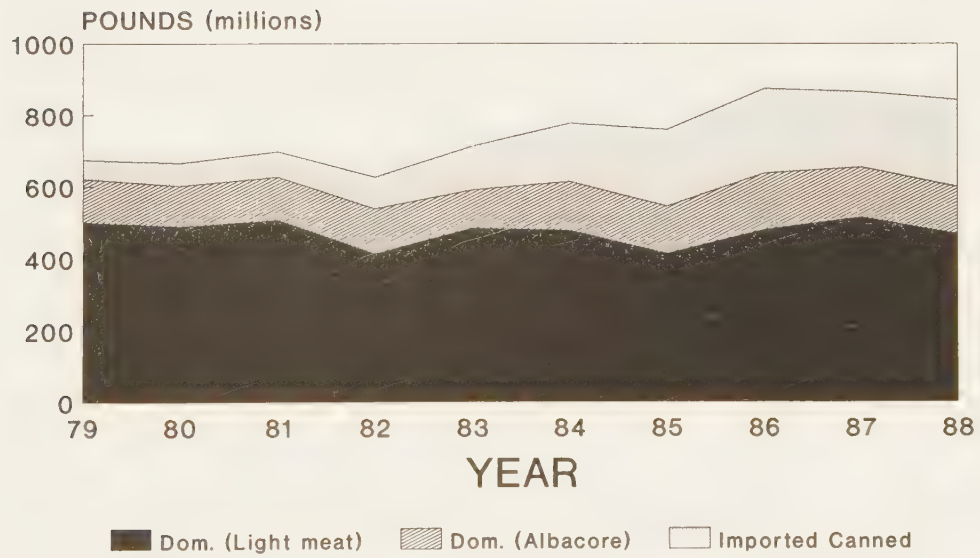
CANNED FISHERY PRODUCTS

PRODUCTION OF CANNED FISHERY PRODUCTS, 1979-88

Year	For human consumption		For animal food and bait		Total	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
1979	959,316	1,593,015	479,764	150,316	1,439,080	1,743,331
1980	1,009,280	1,781,948	506,817	145,708	1,516,097	1,927,656
1981	*1,067,415	*1,819,409	408,783	134,562	1,476,198	*1,953,971
1982	876,157	1,325,435	407,219	132,048	1,283,376	1,457,483
1983	987,329	1,393,604	403,466	140,874	1,390,795	1,534,478
1984	1,041,845	1,435,532	369,123	141,931	1,410,968	1,577,463
1985	913,078	1,269,311	248,068	91,003	1,161,146	1,360,314
1986	1,011,080	1,384,213	320,953	100,377	1,332,033	1,484,590
1987 (1)	965,023	1,476,479	220,641	85,416	1,185,664	1,561,895
1988	907,494	1,384,992	222,920	92,722	1,130,414	1,477,714

(1) Revised. *Record. Records--1973 animal food and bait: 696,357,000 lb; 1976 value $197,955,000; 1973 total: 1,647,357,000 lb.

U.S. SUPPLY OF CANNED TUNA (CANNED WEIGHT) 1979 - 1988



PROCESSED FISHERY PRODUCTS

INDUSTRIAL PRODUCTS

PRODUCTION OF FISH MEAL, OIL, AND SOLUBLES, 1987 AND 1988

Product	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Dried scrap and meal:				
Fish:				
Menhaden (1).....	668,884	105,346	504,524	113,984
Tuna and mackerel.....	84,322	12,892	75,934	9,814
Unclassified.....	17,676	2,626	44,518	5,422
Total.....	770,882	120,864	624,976	129,220
Shellfish.....	16,096	847	18,820	1,457
Grand total.....	786,978	121,711	643,796	130,677
Solubles.....	249,289	17,103	223,449	14,571
Body oil:				
Menhaden (1).....	294,964	35,086	217,493	42,776
Unclassified.....	3,532	421	7,240	819
Total.....	298,496	35,507	224,733	43,595

(1) May include small quantities made from other species.

Note:--To convert pounds of oil to gallons divide by 7.75. The above data include production in American Samoa and Puerto Rico. Final data will be published in Fishery Products, Annual Summary, 1988, Current Fisheries Statistics 8803.

PRODUCTION OF INDUSTRIAL PRODUCTS, 1979-88

Year	Quantity			Value		
	Fish Meal	Fish solubles	Marine animal oil	Fish meal, solubles, and oil	Other industrial products	Grand total
	Thousand pounds			Thousand dollars		
1979.....	748,586	269,856	267,949	200,690	58,768	259,458
1980.....	723,844	267,364	312,511	206,081	*63,525	*269,606
1981.....	637,018	257,242	184,302	166,738	43,497	210,235
1982.....	746,854	305,002	347,513	192,138	41,499	233,637
1983.....	763,536	317,006	*399,334	*212,606	39,785	252,391
1984.....	751,528	252,076	372,804	189,796	44,258	234,054
1985.....	721,682	323,028	285,077	144,724	37,775	182,499
1986.....	702,194	195,148	336,708	138,765	36,825	175,590
1987.....	*786,978	249,289	298,496	174,321	37,524	211,845
1988.....	643,796	223,449	224,733	188,843	46,737	235,580

*Record. Record--1959 fish solubles production: 330,718,000 lb.

Note:--Does not include the value of imported items that may be further processed.

FROZEN FISHERY PRODUCTS

U.S. COLD STORAGE HOLDINGS OF FISHERY PRODUCTS, 1988

Item	January 1	March 31	June 30	September 30	December 31
			-Thousand pounds-		
Blocks:					
Cod	23,645	29,770	33,108	29,148	22,335
Flounder	3,260	1,889	1,968	3,101	3,943
Greenland turbot	978	966	869	866	591
Haddock	4,820	4,005	3,384	2,585	2,546
Ocean perch	1,860	1,701	1,490	1,294	1,214
Pollock (Alaska and other)	15,453	13,142	12,234	16,489	19,536
Whiting	6,212	3,972	3,673	3,426	3,149
Minced (grated) all species	7,998	5,566	5,883	6,776	4,109
Unclassified	4,046	2,890	1,976	2,275	2,757
Total blocks	68,272	63,901	64,585	65,960	60,180
Fillets and steaks:					
Cod	25,667	31,803	34,710	28,210	20,582
Flounder	7,636	5,212	6,940	8,919	9,792
Greenland turbot	4,260	3,530	2,524	2,565	1,711
Haddock	3,498	2,837	2,702	2,667	3,554
Halibut	1,912	1,727	1,329	1,633	2,374
Ocean perch	10,067	7,417	6,813	7,615	7,626
Pollock	23,731	21,899	20,148	18,915	20,709
Whiting	4,286	2,424	1,897	3,311	4,227
Unclassified	21,300	18,313	19,084	17,126	14,886
Total fillets and steaks	102,357	95,162	96,147	90,961	85,461
Fish sticks and portions (cooked uncooked, all species)	33,437	32,919	40,508	30,595	34,873
Round, dressed, etc.:					
Catfish	6,177	5,994	3,965	6,094	9,096
Halibut	14,240	6,749	14,030	22,655	20,486
Rainbow trout	2,040	2,030	3,210	1,899	2,129
Salmon	21,097	10,791	4,992	48,855	45,164
Whiting	1,132	1,699	3,081	1,943	1,768
Unclassified	24,710	23,946	27,324	24,862	21,433
Surimi and analog products	13,163	14,676	10,798	10,393	21,259
Crabs:					
King	4,253	3,629	2,140	1,643	2,667
Snow	5,191	8,384	10,082	13,704	11,373
Unclassified	3,656	3,501	3,537	3,819	4,184
Lobsters (spiny and other)	7,074	6,688	5,375	6,554	5,273
Scallops	6,749	4,944	3,567	4,218	4,990
Shrimp:					
Raw, headless	33,343	19,049	21,024	21,152	26,168
Breaded	6,705	5,887	5,976	6,050	8,805
Peeled	17,701	14,439	12,237	13,484	15,651
Unclassified	15,353	12,776	10,475	9,257	7,945
Total shrimp	73,102	52,151	49,712	49,943	58,569
Other shellfish	25,063	23,675	23,031	15,647	19,664
Bait and animal food	8,539	11,669	15,875	7,589	6,368
Total fish and shellfish	420,252	372,508	381,959	407,334	414,937

Note:--Holdings of frozen fishery products include domestic and imported frozen fish and shellfish.

Source:--Frozen Fishery Products, Annual Summary, 1988, Current Fishery Statistics No. 8801 will provide additional information.

U.S. Imports of Edible Fishery Products, 1988

(Total imports $5,459.4 million)

IMPORTS

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1979-88

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars		
1979	2,358,920	2,671,860	1,136,931	3,808,791
1980	2,144,928	2,686,721	961,731	3,648,452
1981	2,272,474	3,034,206	1,171,805	4,206,011
1982	2,225,048	3,202,408	1,321,170	4,523,578
1983	2,386,771	3,626,704	1,502,668	5,129,372
1984	2,454,287	3,742,333	2,141,060	5,883,393
1985	2,754,018	4,064,334	2,614,252	6,678,586
1986	2,978,905	4,813,488	2,812,805	7,626,293
1987	*3,201,132	*5,711,233	3,106,464	8,817,697
1988	2,970,958	5,459,383	*3,412,612	*8,871,995

*Record. Source:--U.S. Department of Commerce, Bureau of the Census.

FISHERY PRODUCTS IMPORTS: VALUE, DUTIES COLLECTED, AND AD VALOREM EQUIVALENT, 1979-88

Year	Value		Duties collected		Average ad valorem equivalent	
	Fishery imports	All imports	Fishery imports	All imports	Fishery imports	All imports
	Thousand dollars				Percent	
1979	3,808,791	205,922,662	116,617	7,202,174	3.1	3.5
1980	3,648,452	239,943,468	87,288	7,535,421	2.4	3.1
1981	4,206,011	260,981,800	102,064	8,893,200	2.4	3.4
1982	4,523,578	243,951,900	111,952	8,687,452	2.5	3.6
1983	5,129,372	256,679,524	116,503	9,430,004	2.3	3.7
1984	5,883,393	322,989,519	145,689	12,042,152	2.5	3.7
1985	6,678,586	343,553,150	191,421	13,066,970	2.9	3.8
1986	7,626,293	368,656,594	187,791	13,312,112	2.5	3.6
1987	8,817,697	402,066,002	178,861	13,922,567	2.0	3.5
1988	8,871,995	437,140,185	206,470	15,054,304	2.3	3.4

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

FISHERY PRODUCTS IMPORTS, BY PRINCIPAL ITEMS, 1987 AND 1988

Item	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Fresh and frozen:				
Whole or eviscerated:				
Cod, cusk, haddock and flounder	105,158	65,198	85,139	52,717
Halibut	9,295	23,138	11,952	25,432
Salmon	41,902	113,008	50,144	155,173
Tuna:				
Albacore	201,988	171,988	195,991	202,967
Other (1)	370,517	158,771	354,156	169,331
Other	214,628	183,022	222,696	203,399
Fillets and steaks:				
Flounder	73,003	148,734	58,534	119,996
Groundfish	315,418	570,065	253,187	431,126
Other	232,564	396,324	205,988	358,766
Blocks and slabs	403,577	539,358	303,237	382,482
Shrimp	461,173	1,676,844	489,740	1,725,971
Crabmeat	12,571	67,427	10,821	59,639
Lobster:				
American (includes fresh-cooked meat)	38,974	178,069	39,732	183,482
Spiny	41,949	397,854	37,806	363,195
Scallops (meats)	39,934	162,273	32,039	115,706
Analog products with shellfish	30,539	51,197	24,516	41,569
Other fish and shellfish	98,996	169,855	92,128	163,444
Canned:				
Herring, not in oil	5,617	8,726	6,541	10,264
Sardines:				
In oil	27,352	35,106	22,813	30,824
Not in oil	37,670	25,470	30,546	23,154
Tuna:				
In oil	329	869	318	744
Not in oil	211,356	206,051	244,186	297,922
Balls, cakes, and puddings:				
Analog products without shellfish	4,737	6,786	2,574	4,361
Other	8,797	13,130	5,650	8,376
Abalone	2,790	19,867	2,434	22,487
Clams	13,974	15,288	11,268	13,993
Crabmeat	7,967	20,626	7,720	19,622
Lobsters:				
American	637	4,184	594	5,342
Spiny	136	748	52	280
Oysters	32,668	36,144	27,524	39,817
Shrimp	17,132	33,380	14,138	28,730
Other fish and shellfish	57,579	89,499	52,350	80,952
Cured:				
Pickled or salted:				
Cod, haddock, hake, et al	31,893	60,542	31,361	52,665
Herring	22,213	9,594	20,333	8,618
Other	9,991	22,792	11,784	27,718
Other fish and shellfish	16,108	29,306	10,966	29,119
Total edible fishery products	3,201,132	5,711,233	2,970,958	5,459,383
Nonedible fishery products:				
Meal and scrap	393,730	52,508	265,310	49,567
Fish oils	30,509	18,930	27,688	9,666
Other	-	3,035,026	-	3,353,379
Total nonedible fishery products	-	3,106,464	-	3,412,612
Grand total	-	8,817,697	-	8,871,995

(1) Includes loins and discs.

Note:--Data include imports into the United States and Puerto Rico and include landings of tuna by foreign vessels at American Samoa. Statistics on imports are the weight of individual products as exported, i.e., fillets, steaks, whole, headed, etc.

Source:--U.S. Department of Commerce, Bureau of the Census.

EDIBLE AND NONEDIBLE FISHERY PRODUCTS IMPORTS, 1988

Continent and country	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
North America:				
Canada	708,542	1,161,741	123,788	1,285,529
Mexico	111,337	382,056	39,016	421,072
Panama	30,292	79,742	5,049	84,791
Honduras	14,097	70,390	120	70,510
Dominican Republic	1,440	2,801	46,799	49,600
Other	50,903	144,433	24,525	168,958
Total	916,611	1,841,163	239,297	2,080,460
South America:				
Ecuador	146,852	420,791	1,531	422,322
Brazil	49,686	125,510	22,186	147,696
Chile	43,693	66,693	20,967	87,660
Peru	25,596	24,042	49,665	73,707
Argentina	59,293	48,989	11,860	60,849
Other	75,356	117,411	18,905	136,316
Total	400,476	803,436	125,114	928,550
Europe:				
European Economic Community:				
Italy	1,012	2,418	1,088,091	1,090,509
France	29,049	12,858	230,064	242,922
United Kingdom	7,074	24,535	107,556	132,091
Denmark	62,102	112,858	19,181	132,039
Federal Republic of Germany	3,964	4,401	94,884	99,285
Other	58,500	87,012	72,962	159,974
Total	161,701	244,082	1,612,738	1,856,820
Other:				
Norway	71,746	172,437	6,534	178,971
Iceland	88,734	164,777	840	165,617
Switzerland	511	1,091	124,971	126,062
Yugoslavia	4,708	2,815	15,657	18,472
Cyprus	4,318	16,064	1,789	17,853
Other	15,340	21,732	20,048	41,780
Total	185,357	378,916	169,839	548,755
Asia:				
Thailand	249,361	345,921	236,151	582,072
Japan	118,752	211,897	241,921	453,818
Hong Kong	23,386	31,267	359,862	391,129
Taiwan	172,513	285,299	86,870	372,169
China	116,320	318,437	22,912	341,349
Other	472,436	673,409	287,199	960,608
Total	1,152,768	1,866,230	1,234,915	3,101,145
Australia and Oceania:				
Australia	12,631	130,412	14,386	144,798
New Zealand	50,829	142,220	972	143,192
British Pacific Islands	21,953	9,774	7	9,781
French Pacific Islands	186	441	5,630	6,071
New Guinea	66	600	656	1,256
Other	360	980	420	1,400
Total	86,025	284,427	22,071	306,498
Africa:				
Ghana	46,818	15,583	3	15,586
Nigeria	2,981	8,339	332	8,671
Morocco	2,088	3,546	3,420	6,966
Mauritania	7,329	6,376	488	6,864
French Indian Ocean	3,841	2,691	24	2,715
Other	4,963	4,594	4,371	8,965
Total	68,020	41,129	8,638	49,767
Grand total	2,970,958	5,459,383	3,412,612	8,871,995

Note:--Statistics on imports are the weights of individual products as exported, i.e., fillets, steaks, whole, headed, etc. Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY SPECIES AND TYPE, 1987 AND 1988

Species and type	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Regular blocks and slabs:				
Cod	162,910	275,031	150,220	237,317
Flatfish:				
Turbot	2,177	3,026	738	848
Other	9,142	13,698	7,303	11,207
Haddock	27,245	43,783	17,846	27,904
Ocean Perch, Atlantic	2,898	4,213	1,350	1,518
Pollock	89,216	82,165	61,518	47,647
Whiting	32,745	28,289	16,646	13,935
Other	37,356	61,887	9,507	17,179
Total	363,689	512,092	265,128	357,555
Minced blocks and slabs	39,888	27,266	38,109	24,927
Grand total	403,577	539,358	303,237	382,482

Source:--U.S. Department of Commerce, Bureau of the Census.

REGULAR AND MINCED FISH BLOCKS AND SLABS IMPORTS, BY COUNTRY OF ORIGIN, 1987 AND 1988

Country	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	130,301	188,931	126,140	171,906
Denmark	61,513	97,748	43,394	69,144
Republic of Korea	72,525	76,594	51,333	45,060
Norway	27,302	45,213	19,975	29,690
Iceland	26,902	39,500	20,684	28,212
Poland	28,494	26,100	12,771	10,149
Argentina	16,811	13,710	10,008	7,556
Japan	9,757	13,732	5,276	5,618
Other	29,972	37,830	13,656	15,147
Total	403,577	539,358	303,237	382,482

Source:--U.S. Department of Commerce, Bureau of the Census.

GROUNDFISH FILLET AND STEAK IMPORTS, BY SPECIES, 1987 AND 1988 (1)

Species	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Cod	192,791	373,547	159,188	287,555
Haddock (2)	74,654	122,840	52,141	84,866
Ocean Perch, Atlantic	47,973	73,678	41,858	58,705
Total	315,418	570,065	253,187	431,126

(1) Does not include data on fish blocks and slabs.
(2) Includes some quantities of cusk, hake, and pollock fillets.

Note:--Imports and Exports of Fishery Products Annual Summary, 1988, Current Fishery Statistics No. 8802 will provide additional information.
Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

CANNED TUNA NOT IN OIL, QUOTA AND IMPORTS, 1979-88

Year	Quota (1)	Imports	
		Under quota (2)	Over quota (3)
	Thousand pounds		
1979	125,813	82,202	-
1980	109,074	109,074	5,064
1981	104,355	76,683	-
1982	109,742	92,759	-
1983	91,904	91,904	28,304
1984	95,587	95,587	68,328
1985	97,496	97,496	116,854
1986	81,092	81,092	153,057
1987	91,539	91,539	123,364
1988	85,185	85,185	193,784

(1) Imports have been subject to tariff quotas since April 14, 1956, and are based on 20 percent of the previous year's domestic pack, excluding the pack in American Samoa.

(2) Dutiable in 1956 to 1967 at 12.5 percent ad valorem; 1968, 11 percent; 1969, 10 percent; 1970, 8.5 percent; 1971, 7 percent; and 1972 to 1988, 6 percent.

(3) Dutiable in 1958 to 1959 at 25 percent ad valorem; 1970, 17 percent, and 1972 to 1988, 12.5 percent.

Note:--Data in this table will not agree with tuna import data released by the U.S. Department of Commerce, Bureau of the Census. Any tuna entered for consumption or withdrawn from a warehouse for consumption during the calender year, except for receipts from insular possessions of the U.S., is subject to this quota.

Source:--U.S. Department of the Treasury, U.S. Customs Service.

CANNED TUNA, BY COUNTRY OF ORIGIN, 1987 AND 1988

Country	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Thailand	146,928	135,368	178,941	207,538
Taiwan	25,924	34,809	24,013	41,759
Philippines	20,858	16,577	18,505	18,629
Ecuador	5,112	4,481	8,318	9,366
Japan	4,688	7,375	3,370	6,992
Indonesia	1,505	1,247	4,854	5,690
Malaysia	1,573	1,985	2,824	3,964
Other	5,097	5,078	3,679	4,728
Total	211,685	206,920	244,504	298,666

Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

SHRIMP IMPORTS, BY COUNTRY OF ORIGIN, 1987 AND 1988

Country	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
North America:				
Mexico	86,082	400,831	63,524	310,549
Panama	16,614	69,673	14,737	57,649
Honduras	7,928	27,977	9,137	32,289
El Salvador	7,230	21,960	8,171	26,138
Guatemala	3,415	13,305	4,278	14,368
Canada	6,943	15,298	5,343	14,320
Costa Rica	4,114	13,827	3,656	12,746
Trinidad and Tobago	643	1,871	393	1,351
Belize	167	599	130	507
Greenland	40	213	83	448
Other	389	1,719	251	885
Total	133,565	567,273	109,703	471,250
South America:				
Ecuador	101,260	378,515	103,971	382,109
Brazil	16,610	50,880	19,934	59,109
Venezuela	6,043	18,165	8,931	28,478
Colombia	4,321	19,738	4,194	18,585
Peru	5,891	21,387	4,083	14,011
Guyana	4,694	14,967	4,671	12,439
French Guiana	2,305	8,951	2,636	9,536
Chile	589	2,725	771	2,964
Suriname	947	4,225	711	2,703
Argentina	281	963	496	1,447
Other	7	19	11	31
Total	142,948	520,535	150,409	531,412
Europe:				
European Economic Community:				
United Kingdom	2,575	8,857	1,200	3,732
Denmark	669	2,868	276	1,349
Belgium	54	135	350	998
Spain	407	1,090	124	836
Federal Republic of Germany	30	120	95	453
Other	346	1,475	203	693
Total	4,081	14,545	2,248	8,061
Other:				
Norway	4,521	21,357	1,245	5,225
Iceland	596	2,604	120	558
Switzerland	67	311	183	544
Turkey	-	-	78	223
Sweden	2	10	22	110
Other	1	7	54	127
Total	5,187	24,289	1,702	6,787
Asia:				
China	42,417	118,916	104,316	300,042
Thailand	24,125	64,496	23,676	91,290
Taiwan	37,051	159,617	17,365	85,633
India	28,374	56,980	32,169	55,048
Bangladesh	9,346	32,436	11,659	50,452
Philippines	5,638	26,376	7,635	37,469
Pakistan	17,621	35,523	14,548	25,237
Singapore	7,000	20,054	5,599	19,114
Indonesia	3,677	11,894	4,335	17,638
Malaysia	4,400	11,926	6,073	15,093
Other	9,417	30,257	8,295	25,153
Total	189,066	568,475	235,670	722,169
Australia and Oceania	1,300	8,678	1,009	6,005
Africa	2,158	6,429	3,137	9,017
Grand total	478,305	1,710,224	503,878	1,754,701

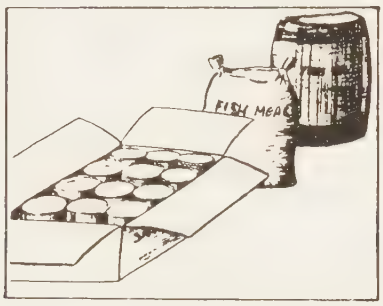
Note:--Statistics on imports are the weights of the individual products as exported, i.e., raw headless, peeled, etc. Source:--U.S. Department of Commerce, Bureau of the Census.

IMPORTS

SHRIMP IMPORTS, BY TYPE OF PRODUCT, 1987 AND 1988

Type of product	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Shell-on (head off)	310,073	1,224,234	358,765	1,337,211
Peeled:				
Canned	17,132	33,380	14,138	28,730
Not breaded:				
Raw	116,708	313,521	96,520	244,016
Other	33,181	136,137	33,087	142,256
Breaded	1,211	2,952	1,368	2,488
Total	478,305	1,710,224	503,878	1,754,701

Source:--U.S. Department of Commerce, Bureau of the Census.



FISH MEAL AND SCRAP IMPORTS, BY COUNTRY OF ORIGIN, 1987 AND 1988

Country	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Peru	61,376	9,101	103,052	19,997
Chile	208,244	27,480	56,058	12,236
Canada	64,364	8,958	70,524	11,209
Panama	44,468	4,937	22,268	3,521
Ecuador	11,890	1,446	7,284	1,203
Taiwan	-	-	1,366	379
Poland	-	-	1,102	313
Other	3,388	586	3,656	709
Total	393,730	52,508	265,310	49,567

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

DOMESTIC FISHERY PRODUCTS EXPORTS, BY PRINCIPAL ITEMS, 1987 AND 1988

Item	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Edible fishery products:				
Eels, live	5,537	5,886	3,620	5,996
Fresh and frozen:				
Whole or eviscerated:				
Butterfish	7,575	10,457	10,827	14,121
Eels	300	461	679	1,008
Halibut	7,229	14,108	6,185	11,470
Herring	92,266	81,517	74,597	76,551
Mackerel	1,453	779	3,580	1,328
Mullet	2,654	1,689	1,465	1,074
Pollock	6,368	4,643	4,903	4,681
Sablefish	41,889	70,057	41,804	87,794
Salmon	267,735	604,163	292,400	825,934
Unclassified	82,491	103,627	211,991	208,284
Fillets, steaks, and portions:				
Cod	11,405	16,347	11,941	18,196
Halibut	1,212	2,230	1,797	3,099
Herring	2,751	2,512	19,391	18,393
Salmon	1,960	4,403	1,715	4,457
Unclassified	36,983	50,241	52,508	68,299
Fish sticks and portions	2,200	3,684	2,150	3,348
Clams	1,232	1,933	1,558	2,540
Crabs:				
Dungeness	691	3,133	1,052	3,576
King	8,375	60,581	5,251	45,993
Snow	43,339	117,530	57,466	175,118
Unclassified	3,741	11,897	5,181	17,696
Lobsters	3,784	14,392	8,058	36,270
Scallops	849	3,681	668	2,808
Sea urchins	2,931	25,389	3,647	30,049
Shrimp	21,981	74,851	22,116	78,043
Squid	16,422	11,938	37,847	25,113
Other fish and shellfish	19,405	32,056	55,930	64,578
Canned:				
Salmon	35,901	85,816	32,900	91,568
Sardines	999	688	8,555	7,902
Abalone	1,159	12,380	1,459	17,187
King crab	63	126	250	564
Shrimp	2,334	8,264	2,014	7,855
Squid	4,898	1,943	6,651	2,890
Other fish and shellfish	8,269	11,035	10,379	14,101
Cured:				
Cod	2,071	2,666	8,282	10,634
Salmon	266	1,071	333	1,308
Roe:				
Herring	6,810	23,125	18,494	34,479
Salmon	16,860	71,696	17,647	90,147
Sea urchins	607	2,869	2,056	12,040
Other	3,880	13,164	8,813	20,031
Other fish and shellfish	3,840	8,061	5,103	14,136
Other	220	520	541	964
Total edible fishery products	782,935	1,577,609	1,063,804	2,161,623
Nonedible fishery products:				
Meal and scrap	103,422	13,245	246,306	23,447
Fish oils	249,119	23,312	149,279	21,946
Seal furs	(1)	399	(1)	39
Other	-	45,808	-	67,540
Total nonedible fishery products	-	82,764	-	112,972
Grand total	-	1,660,373	-	2,274,595

(1) Number of seal furs was 5,489 in 1987 and 772 in 1988. Note:--Does not include U.S.-flag vessel catches transferred onto foreign vessels in the U.S. EEZ joint venture operations (see page 18).

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

DOMESTIC FISHERY PRODUCTS EXPORTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1988

Continent and Country	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
North America:				
Canada	79,400	156,199	8,307	164,506
Mexico	11,497	27,615	3,312	30,927
Bermuda	1,208	3,916	4	3,920
Honduras	2,292	2,200	307	2,507
Netherlands Antilles	1,073	1,802	151	1,953
Other	5,833	6,699	2,245	8,944
Total	101,303	198,431	14,326	212,757
South America:				
Venezuela	22	78	942	1,020
Chile	42	117	903	1,020
Brazil	9	45	899	944
Ecuador	112	206	689	895
Colombia	57	148	296	444
Other	54	97	778	875
Total	296	691	4,507	5,198
Europe:				
European Economic Community:				
United Kingdom	34,272	80,547	1,996	82,543
France	35,300	71,744	902	72,646
Netherlands	7,858	16,609	17,428	34,037
Italy	12,908	14,807	1,518	16,325
Federal Republic of Germany	7,821	12,572	1,747	14,319
Other	41,115	46,358	4,517	50,875
Total	139,274	242,637	28,108	270,745
Other:				
Sweden	6,320	13,418	81	13,499
Norway	923	2,153	759	2,912
Switzerland	1,127	2,713	50	2,763
Iceland	1,143	958	67	1,025
Yugoslavia	2,206	993	16	1,009
Other	24,648	1,428	529	1,957
Total	36,367	21,663	1,502	23,165
Asia:				
Japan	712,151	1,571,833	27,356	1,599,189
Republic of Korea	32,882	43,782	2,116	45,898
Taiwan	8,007	20,316	10,169	30,485
Hong Kong	5,338	21,419	7,995	29,414
Thailand	2,471	4,560	2,239	6,799
Other	7,705	12,849	4,955	17,804
Total	768,554	1,674,759	54,830	1,729,589

(Continued)

DOMESTIC FISHERY PRODUCTS EXPORTS, BY CONTINENT AND COUNTRY OF DESTINATION, 1988 - Continued

Continent and Country	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
Australia and Oceania:				
Australia	11,681	18,479	372	18,851
French Pacific Islands	389	896	37	933
Other Pacific Islands	2,596	896	-	896
New Zealand	167	359	41	400
British Pacific Islands	10	36	-	36
Other	161	88	-	88
Total	15,004	20,754	450	21,204
Africa:				
Egypt	1,343	668	8,730	9,398
Republic of South Africa	1,380	1,662	353	2,015
Tunisia	14	63	58	121
Nigeria	89	99	-	99
Angola	34	67	-	67
Other	146	129	108	237
Total	3,006	2,688	9,249	11,937
Grand total	1,063,804	2,161,623	112,972	2,274,595

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FISHERY PRODUCTS EXPORTS, 1979-88

Year	Edible		Nonedible	Total
	Thousand pounds	Thousand dollars	Thousand dollars	Thousand dollars
1979	554,294	1,022,335	62,162	1,084,497
1980	573,896	904,363	101,791	1,006,154
1981	669,272	1,072,765	84,230	1,156,995
1982	657,246	998,873	60,011	1,058,884
1983	601,913	907,688	*113,804	1,021,492
1984	574,124	842,349	106,490	948,839
1985	648,146	1,010,268	73,846	1,084,114
1986	735,026	1,289,807	66,289	1,356,096
1987	782,935	1,577,609	82,764	1,660,373
1988	*1,063,804	*2,161,623	112,972	*2,274,595

*Record. Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

DOMESTIC AND FOREIGN SHRIMP PRODUCTS EXPORTS, 1987 AND 1988

ITEM	1987		1988	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
Fresh and frozen:				
Domestic	21,981	74,851	22,116	78,043
Foreign	2,947	11,563	4,183	14,725
Total	24,928	86,414	26,299	92,768
Canned:				
Domestic	2,334	8,264	2,014	7,855
Foreign	85	152	173	552
Total	2,419	8,416	2,187	8,407
Total:				
Domestic	24,315	83,115	24,130	85,898
Foreign	3,032	11,715	4,356	15,277
Total	27,347	94,830	28,486	101,175

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1987 AND 1988

Country	1987		1988	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
Canada	8,960	28,943	6,633	25,318
Mexico	4,694	14,129	6,973	21,008
Japan	5,824	21,976	3,548	14,040
Sweden	291	1,107	1,240	3,791
United Kingdom	280	1,342	992	3,708
Norway	148	544	438	1,574
Netherlands	70	848	175	1,553
Hong Kong	101	389	739	1,467
Singapore	72	154	270	1,288
Other	1,541	5,419	1,108	4,296
Total	21,981	74,851	22,116	78,043

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC CANNED SHRIMP EXPORTS, BY COUNTRY OF DESTINATION, 1987 AND 1988

Country	1987		1988	
	THOUSAND POUNDS	THOUSAND DOLLARS	THOUSAND POUNDS	THOUSAND DOLLARS
Canada	1,270	4,192	778	3,290
Thailand	219	1,041	293	1,238
Taiwan	341	1,035	239	1,021
Switzerland	103	383	125	444
Japan	28	141	103	286
Federal Republic of Germany	57	241	95	248
United Kingdom	38	156	58	173
Bermuda	12	52	26	171
Hong Kong	11	26	60	168
Other	255	997	237	816
Total	2,334	8,264	2,014	7,855

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

DOMESTIC FRESH AND FROZEN SALMON EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1987 AND 1988

Country	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	194,140	457,153	238,273	702,199
France	23,838	57,530	14,464	40,592
Canada	20,652	38,490	13,717	28,154
United Kingdom	8,327	14,914	8,859	17,396
Republic of Korea	5,598	5,983	5,685	9,520
Denmark	3,390	5,905	3,573	7,597
Belgium and Luxembourg	2,166	6,342	1,284	4,909
Federal Republic of Germany	1,901	3,858	1,713	4,246
Sweden	3,977	5,692	1,426	2,914
Italy	191	569	427	1,911
Netherlands	1,576	3,672	547	1,632
Switzerland	576	1,182	509	1,278
Other	1,403	2,873	1,923	3,586
Total	267,735	604,163	292,400	825,934

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN SALMON EXPORTS, FILLETS, STEAKS OR PORTIONS, BY COUNTRY OF DESTINATION, 1987 AND 1988

Country	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Canada	410	912	581	1,480
France	124	278	319	1,204
Japan	1,169	2,593	531	1,127
Belgium and Luxembourg	-	-	80	218
United Kingdom	132	305	65	97
Federal Republic of Germany	75	188	31	92
Sweden	-	-	22	66
Taiwan	7	16	43	65
Ireland	-	-	12	31
Other	43	111	31	77
Total	1,960	4,403	1,715	4,457

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC CANNED SALMON EXPORTS, BY COUNTRY OF DESTINATION, 1987 AND 1988

Country	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
United Kingdom	17,722	45,355	16,992	51,449
Australia	6,868	14,101	6,105	14,988
Canada	6,379	15,004	5,172	13,051
Netherlands	2,107	5,788	2,548	6,882
Belgium and Luxembourg	1,021	1,734	761	2,030
Japan	326	828	573	1,636
Italy	63	76	224	352
French Pacific Islands	67	135	108	262
New Zealand	262	711	90	184
Other	1,086	2,084	327	734
Total	35,901	85,816	32,900	91,568

Source:--U.S. Department of Commerce, Bureau of the Census.

EXPORTS

DOMESTIC FROZEN KING CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1987 AND 1988

Country	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	7,181	54,674	4,243	39,796
Canada	1,028	4,935	850	5,485
Bermuda	20	113	22	130
Singapore	6	48	17	118
Federal Republic of Germany	50	189	40	109
Republic of Korea	5	32	42	97
Other	85	590	37	258
Total	8,375	60,581	5,251	45,993

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FROZEN SNOW CRAB EXPORTS, BY COUNTRY OF DESTINATION, 1987 AND 1988

Country	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	36,564	100,599	52,760	161,303
Republic of Korea	5,842	14,901	3,667	11,047
Canada	874	1,791	785	1,891
Belgium and Luxembourg	-	-	27	204
Netherlands	-	-	44	177
Federal Republic of Germany	20	120	37	150
Other	39	119	146	346
Total	43,339	117,530	57,466	175,118

Source:--U.S. Department of Commerce, Bureau of the Census.

DOMESTIC FRESH AND FROZEN HERRING EXPORTS, WHOLE OR EVISCERATED, BY COUNTRY OF DESTINATION, 1987 AND 1988

Country	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Japan	67,622	59,398	65,660	70,431
Republic of Korea	13,290	13,152	3,352	3,184
Canada	10,342	7,939	5,454	2,879
Sinagpore	-	-	29	24
Haiti	23	19	66	23
Mexico	-	-	6	6
Other	989	1,009	30	4
Total	92,266	81,517	74,597	76,551

Source:--U.S. Department of Commerce, Bureau of the Census.

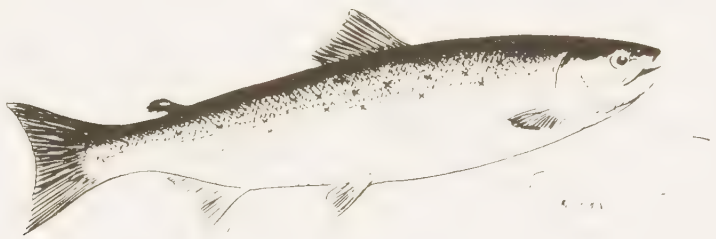
FOREIGN TRADE

EXPORTS

DOMESTIC FISH AND MARINE ANIMAL OIL EXPORTS, BY COUNTRY OF DESTINATION, 1987 AND 1988

Country	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Netherlands	193,090	16,360	130,978	16,971
United Kingdom	35,991	3,909	1,739	1,054
Spain	7,697	720	6,500	1,000
Canada	598	307	1,660	552
Norway	218	640	152	516
Federal Republic of Germany	2,035	220	2,421	425
Republic of South Africa	-	-	2,202	302
Japan	13	32	111	234
Belgium and Luxembourg	8,957	670	2,183	224
Other	520	454	1,333	668
Total	249,119	23,312	149,279	21,946

Source:--U.S. Department of Commerce, Bureau of the Census.



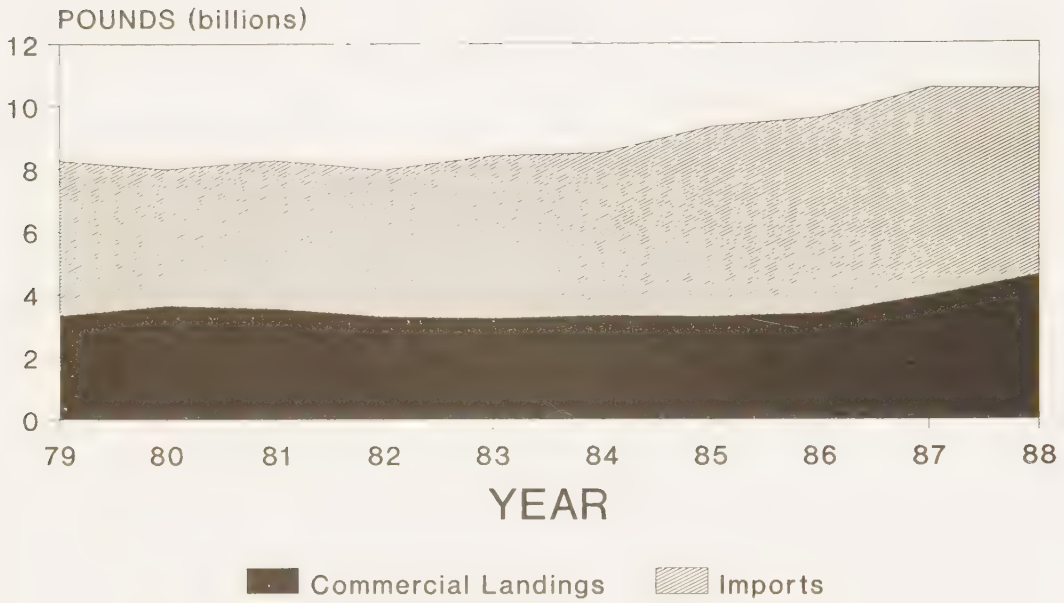
DOMESTIC FISH MEAL EXPORTS, BY COUNTRY OF DESTINATION, 1987 AND 1988

Country	1987		1988	
	Thousand pounds	Thousand dollars	Thousand pounds	Thousand dollars
Egypt	36,800	6,019	27,960	8,726
Taiwan	17,008	2,399	32,876	5,475
Canada	19,404	1,491	24,734	3,466
Japan	3,692	691	102,300	1,010
Dominican Republic	2,230	294	3,474	626
Saudi Arabia	-	-	2,208	557
French Guiana	208	12	4,012	492
Sri Lanka	-	-	2,932	409
USSR	-	-	21,888	377
Other	24,080	2,339	23,922	2,309
Total	103,422	13,245	246,306	23,447

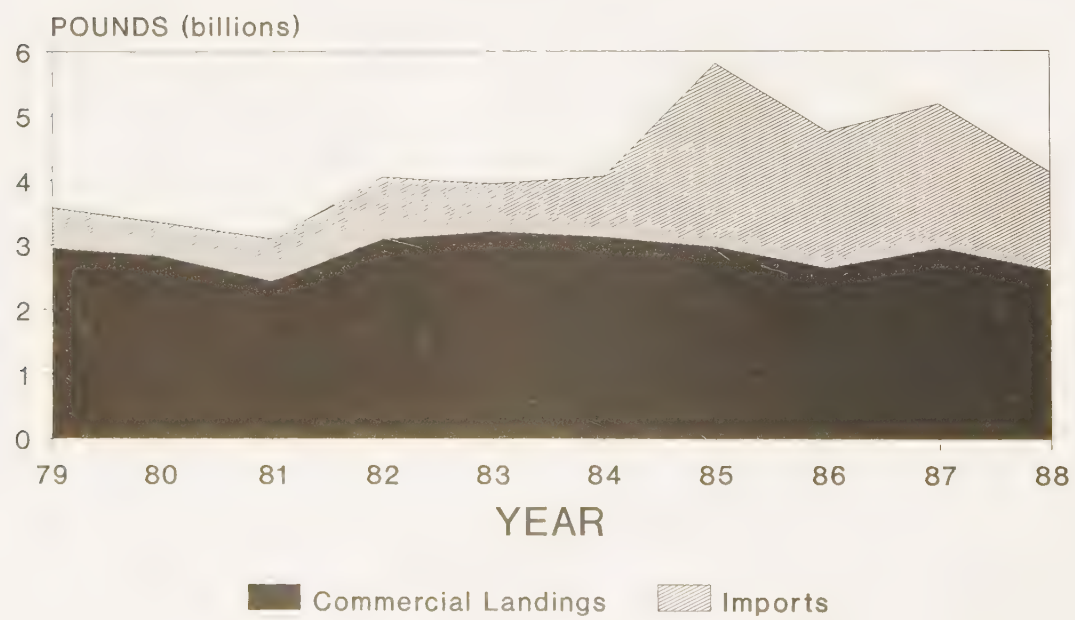
Source:--U.S. Department of Commerce, Bureau of the Census.

U.S. Exports of Edible Fishery Products, 1988
(Total exports $2,161.6 million)

U.S. SUPPLY OF EDIBLE FISHERY PRODUCTS (ROUND WEIGHT) 1979 - 1988



SUPPLY OF INDUSTRIAL FISHERY PRODUCTS (U.S., ROUND WEIGHT) 1979 - 1988



U.S. SUPPLY OF EDIBLE AND INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1979-88
(Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1979	6,267	53.0	5,564	47.0	11,831
1980	6,482	57.1	4,875	42.9	11,357
1981	5,977	52.6	5,376	47.4	11,353
1982	6,367	53.0	5,644	47.0	12,011
1983	6,439	52.1	5,913	47.9	12,352
1984	6,438	51.3	6,114	48.7	12,552
1985	6,258	41.3	8,892	58.7	15,150
1986	6,031	42.0	8,337	58.0	14,368
1987	6,896	43.8	8,848	56.2	15,744
1988	*7,192	49.2	7,436	50.8	14,628

(1) Preliminary.
(2) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.
*Record. Records--1968 imports: 13,221 million lb; 1968 total: 17,381 million lb.

Note:--The weights of U.S. landings and imports represent the round (live) weight of all items except univalve and bivalve mollusks (conchs, clams, oysters, scallops, etc.) which are shown in weight of meats (excluding the shell).

U.S. SUPPLY OF EDIBLE COMMERCIAL FISHERY PRODUCTS, 1979-88
(Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1979	3,318	40.2	4,933	59.8	8,251
1980	3,654	45.6	4,352	54.4	8,006
1981	3,547	42.9	4,720	57.1	8,267
1982	3,285	41.2	4,683	58.8	7,968
1983	3,238	38.5	5,175	61.5	8,413
1984	3,320	39.1	5,178	60.9	8,498
1985	3,294	35.3	6,043	64.7	9,337
1986	3,393	35.3	6,227	64.7	9,620
1987	3,946	37.4	*6,615	62.6	*10,561
1988	*4,588	43.7	5,917	56.3	10,505

(1) Preliminary.
(2) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa. *Record.

U.S. SUPPLY OF INDUSTRIAL COMMERCIAL FISHERY PRODUCTS, 1979-88
(Round weight)

Year	Domestic commercial landings (1)		Imports (2)		Total
	Million pounds	Percent	Million pounds	Percent	Million pounds
1979	2,949	82.4	631	17.6	3,580
1980	2,828	84.4	523	15.6	3,351
1981	2,430	78.7	656	21.3	3,086
1982	3,082	76.2	961	23.8	4,043
1983	*3,201	81.3	738	18.7	3,939
1984	3,118	76.9	936	23.1	4,054
1985	2,964	51.0	2,849	49.0	5,813
1986	2,638	55.6	2,110	44.4	4,748
1987	2,950	56.9	2,233	43.1	5,183
1988	2,604	63.2	1,519	36.8	4,123

(1) Preliminary. *Record. Records--1968 imports: 9,989 million lb; 1968 total: 11,802 million lb.

U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1987 AND 1988

Item	Domestic commercial landings		Imports (1)		Total	
	1987	1988	1987	1988	1987	1988
	Million pounds, round weight					
Edible fishery products:						
Finfish	2,769	3,306	5,150	4,480	7,919	7,786
Shellfish	1,177	1,282	1,465	1,437	2,642	2,719
Total	3,946	4,588	6,615	5,917	10,561	10,505
Industrial fishery products:						
Finfish	2,939	2,599	2,233	1,519	5,172	4,118
Shellfish	11	5	(3)	(3)	11	5
Total	2,950	2,604	2,233	1,519	5,183	4,123
Total:						
Finfish	5,708	5,905	7,383	5,999	13,091	11,904
Shellfish	1,188	1,287	1,465	1,437	2,653	2,724
Total	6,896	7,192	8,848	7,436	15,744	14,628

See footnotes below.

VALUE OF U.S. SUPPLY OF COMMERCIAL FINFISH AND SHELLFISH, 1987 AND 1988

Item	Domestic commercial landings		Imports (1)		Total	
	1987	1988	1987	1988	1987	1988
	Million dollars					
Edible fishery products:						
Finfish	1,502	1,873	2,884	2,676	4,386	4,549
Shellfish	1,477	1,490	2,772	2,730	4,249	4,220
Total	2,979	3,363	5,656	5,406	8,635	8,769
Industrial fishery products:						
Finfish	127	150	(2)55	(2)53	182	203
Shellfish	9	7	(3)	(3)	9	7
Total	136	157	55	53	191	210
Total:						
Finfish	1,629	2,023	2,939	2,729	4,568	4,752
Shellfish	1,486	1,497	2,772	2,730	4,258	4,227
Total	3,115	3,520	5,711	5,459	8,826	8,979

(1) Excludes imports of edible fishery products consumed in Puerto Rico, but includes landings of foreign-caught tuna in American Samoa.
(2) Includes only quantity and value of fish meal and sea herring for industrial purposes.
(3) Not available.

Note:--Value of domestic commercial landings is exvessel value.

U.S. SUPPLY OF REGULAR AND MINCED BLOCKS, 1979-88
(Edible weight)

Year	U.S. production		Imports		Total supply
	Quantity	Precentage of total supply	Quantity	Precentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1979	4,857	1.2	*408,152	98.8	*413,009
1980	1,205	0.4	336,117	99.6	337,322
1981	1,029	0.3	344,111	99.7	345,140
1982	2,766	0.9	318,966	99.1	321,732
1983	5,155	1.3	384,458	98.7	389,613
1984	2,655	0.8	316,165	99.2	318,820
1985	2,551	0.8	334,060	99.2	336,611
1986	3,919	1.1	363,897	98.9	367,816
1987 (1)	13,559	3.3	403,577	96.7	417,136
1988	*44,602	12.8	303,237	87.2	347,839

(1) Revised. *Record.

U.S. SUPPLY OF ALL FILLETS AND STEAKS, 1979-88
(Edible weight)

Year	U.S. production (1)		Imports		Total supply
	Quantity	Precentage of total supply	Quantity	Precentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1979	187,167	30.4	427,526	69.6	614,693
1980	202,779	35.5	369,161	64.5	571,940
1981	205,225	33.1	414,163	66.9	619,388
1982	217,644	33.0	440,916	67.0	658,560
1983	230,649	34.4	439,716	65.6	670,365
1984	252,288	34.8	473,594	65.2	725,882
1985	245,525	31.4	536,725	68.6	782,250
1986	279,468	34.2	538,532	65.8	818,000
1987 (2)	356,081	36.4	*620,985	63.6	*977,066
1988	*384,259	42.6	517,709	57.4	901,968

(1) Includes fillets used to produce blocks. (2) Revised. *Record.

U.S. SUPPLY OF GROUNDFISH FILLETS AND STEAKS, 1979-88
(Edible weight)

Year	U.S. production (1)		Imports		Total supply
	Quantity	Precentage of total supply	Quantity	Precentage of total supply	Quantity
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1979	74,568	22.8	252,957	77.2	327,525
1980	67,221	23.3	220,954	76.7	288,175
1981	77,092	23.1	257,164	76.9	334,256
1982	70,994	19.4	295,193	80.6	366,187
1983	81,223	21.4	298,170	78.6	379,393
1984	94,943	23.6	307,852	76.4	402,795
1985	84,244	21.6	305,690	78.4	389,934
1986	107,008	27.2	287,099	72.8	394,107
1987 (2)	110,688	26.0	*315,418	74.0	*426,106
1988	87,872	25.8	253,187	74.2	341,059

(1) Includes fillets used to produce blocks. Species include: cod, cusk, haddock, hake, Atlantic pollock, and Atlantic ocean perch. *Record. (2) Revised.
Record--1951 U.S. production: 148,786,000 lb.

U.S. COMMERCIAL LANDINGS AND IMPORTS OF TUNA, 1979-88
(Thousand pounds)

Year	Domestic commercial landings				Imports	
	Atlantic, Gulf Pacific Coast States, and Hawaii	Puerto Rico and American Samoa (1)	Total	Fresh and frozen including cooked loins and discs (2)	Canned	
					In oil	Not in oil
	Round weight				Product weight	
1979.....	364,476	143,676	508,152	810,066	627	53,076
1980.....	399,432	100,606	500,038	770,396	446	63,107
1981.....	341,149	148,729	489,878	769,675	268	70,583
1982.....	261,409	211,679	473,088	589,558	213	87,366
1983.....	278,692	307,298	585,990	533,686	197	122,132
1984.....	211,830	371,089	582,919	497,079	277	162,036
1985.....	83,054	433,083	516,137	482,742	303	213,645
1986.....	87,811	469,034	556,845	567,524	301	236,320
1987.....	100,058	526,186	626,244	572,505	329	211,356
1988.....	111,349	497,975	609,324	550,147	318	*244,186

(1) Includes a quantity of fish landed at other ports by U.S.-flag vessels.
(2) Includes landings in American Samoa of foreign-caught fish.
*Record.

U.S. SUPPLY OF CANNED TUNA, 1979-88
(Canned weight)

Year	Domestic production				Imported Canned		Total supply
	Albacore		Lightmeat				
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1979.....	119,517	17.7	500,716	74.3	53,703	8.0	673,936
1980.....	113,605	17.1	488,451	73.4	63,553	9.5	665,609
1981.....	120,983	17.3	505,986	72.5	70,851	10.2	697,820
1982.....	125,113	20.0	413,390	66.0	87,579	14.0	626,082
1983.....	106,175	14.9	484,367	67.9	122,329	17.2	712,871
1984.....	136,745	17.6	477,536	61.5	162,313	20.9	776,594
1985.....	132,001	17.4	412,992	54.4	213,948	28.2	758,941
1986.....	157,341	18.0	479,490	54.9	236,621	27.1	873,452
1987.....	139,888	16.2	514,095	59.4	211,685	24.5	865,668
1988.....	131,114	15.6	467,067	55.4	244,504	29.0	842,685

U.S. SUPPLY OF CANNED SARDINES, 1979-88
(Canned weight)

Year	U.S. pack	Imports			Total	Exports		Total supply
		In oil	Not in oil	Total		Domestic	Foreign	
	Thousand pounds							
1979.....	30,030	22,878	26,879	49,757	79,787	1,591	301	77,895
1980.....	19,500	18,218	32,960	51,178	70,678	1,839	78	68,761
1981.....	30,586	18,239	37,034	55,273	85,859	1,731	183	83,945
1982.....	18,003	14,119	35,925	50,044	68,047	1,049	195	66,803
1983.....	13,110	17,151	18,096	35,247	48,357	1,013	920	46,424
1984.....	14,650	17,535	27,216	44,751	59,401	889	860	57,652
1985.....	20,016	23,009	34,213	57,222	77,238	529	570	76,139
1986.....	15,601	22,949	30,315	53,264	68,865	271	287	68,307
1987.....	13,116	27,352	37,670	65,022	78,138	999	158	76,981
1988.....	18,631	22,813	30,546	53,359	71,990	8,555	162	63,273

*Record--1974 imports: 69,137,000 lb.

U.S. SUPPLY OF CANNED SALMON, 1979-88
(Canned weight)

Year	U.S. pack	Imports	Total	Exports		Total supply
				Domestic	Foreign	
	Thousand pounds					
1979.....	148,822	434	149,256	50,907	70	98,279
1980.....	200,003	167	200,170	*74,006	58	126,106
1981.....	214,855	71	214,926	63,494	201	151,231
1982.....	112,100	158	112,258	41,156	111	70,991
1983.....	181,166	277	181,443	54,488	422	126,533
1984.....	198,926	551	199,477	48,963	245	150,269
1985.....	158,943	1,958	160,901	48,240	39	112,622
1986.....	141,756	4,622	146,378	59,434	(1)	86,944
1987.....	105,206	6,652	111,858	35,901	207	75,750
1988.....	87,665	3,528	91,193	32,900	93	58,200

(1) Less than 500 lb. *Records--1936 U.S. pack: 430,328,000 lb; 1959 imports: 31,154,000 lb.

U.S. SUPPLY OF CLAM MEATS, 1979-88
(Meat weight)

Year	U.S. commercial landings					Imports (1)	Exports		Total supply
	Hard	Soft	Surf	Other	Total		Domestic	Foreign	
	Thousand pounds								
1979.....	12,058	8,585	34,912	36,495	92,050	7,273	(2)	(2)	99,323
1980.....	13,370	8,948	37,737	35,314	95,369	6,908	(2)	(2)	102,277
1981.....	18,118	8,072	46,100	48,341	120,631	9,520	(2)	(2)	130,151
1982.....	12,855	8,021	49,720	37,709	108,305	11,122	(2)	(2)	119,427
1983.....	14,186	8,460	55,938	36,821	115,405	11,006	(2)	(2)	126,411
1984.....	14,749	7,919	70,243	40,010	132,921	11,113	(2)	(2)	144,034
1985.....	16,697	7,865	72,520	53,469	*150,551	12,979	931	40	*162,559
1986.....	11,793	5,887	78,749	48,964	145,393	16,880	1,227	16	161,030
1987.....	11,418	7,469	60,744	54,726	134,357	*17,641	1,146	11	150,841
1988.....	12,371	6,814	63,545	49,010	131,740	14,872	1,449	9	145,154

(1) Imports and exports were converted to meat weight by using these conversion factors: 0.40, in shell or shucked; 0.30 canned chowder and juice; and 0.93, other. (2) Not reported. *Record.

U.S SUPPLY OF KING CRAB, 1979-88
(Round weight)

Year	U.S. commercial landings	Exports (1)		Total supply
		Frozen	Canned	
	Thousand pounds			
1979	154,589	64,187	4,616	85,786
1980	*185,624	50,525	1,988	*133,111
1981	88,054	27,704	704	59,646
1982	38,492	8,958	1,071	28,463
1983	25,581	2,039	346	23,196
1984	17,204	3,521	448	13,235
1985	15,363	4,053	752	10,558
1986	25,909	6,941	267	18,701
1987	29,065	14,656	336	14,073
1988	20,973	9,189	1,332	10,452

(1) Domestic merchandise. Converted to round (live) weight by using these conversion factors: 1.75, frozen; and 5.33, canned. *Record.

U.S. SUPPLY OF SNOW (TANNER) CRABS, 1979-88
(Round weight)

Year	U.S. commercial landings	Imports (1)	Total	Exports (2)	Total supply
	Thousand pounds				
1979	131,393	4,254	135,647	91,543	44,104
1980	121,684	3,732	125,416	71,871	*53,545
1981	107,474	3,460	110,934	68,156	42,778
1982	68,767	3,135	71,902	47,220	24,682
1983	61,077	3,362	64,439	34,415	30,024
1984	48,765	4,992	53,757	31,127	22,630
1985	85,742	6,572	92,314	47,436	44,878
1986	110,000	5,510	115,510	66,925	48,585
1987	113,812	7,706	121,518	92,312	29,206
1988	*146,326	6,765	*153,091	*122,402	30,689

(1) Converted to round (live) weight by multiplying canned weight by 5.00. (2) Domestic merchandise converted to round (live) weight by multiplying frozen weight by 2.13 (believed to be mostly sections). Data for foreign exports not available. *Record.

U.S. SUPPLY OF CANNED CRABMEAT, 1979-88
(Canned weight)

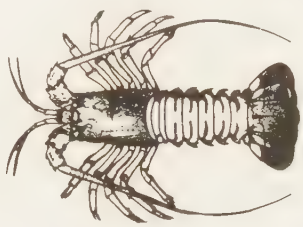
Year	U.S. pack	Percentage of total	Imports	Percentage of total	Total	Exports (1)	Total supply
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds		
1979	2,958	36.8	5,073	63.2	8,031	866	7,165
1980	3,916	43.9	5,002	56.1	8,918	373	8,545
1981	1,725	25.6	5,019	74.4	6,744	132	6,612
1982	1,349	19.0	5,737	81.0	7,086	201	6,885
1983	1,435	18.1	6,505	81.9	7,940	65	7,875
1984	1,084	14.8	6,233	85.2	7,317	84	7,233
1985	553	6.8	7,584	93.2	8,137	141	7,996
1986	591	6.3	8,778	93.7	9,369	50	9,319
1987 (2)	200	2.4	7,967	97.6	8,167	63	8,104
1988	356	4.4	7,720	95.6	8,076	250	7,826

(1) Domestic king crab only. (2) Revised. Records--1966 U.S. pack: 11,002,000 lb; 1939 imports 13,507,000 lb.

U.S. SUPPLY OF AMERICAN LOBSTERS,1979-88
(Round weight)

Year	U.S. commercial landings		Imports (1)				Total supply
	Quantity	Percentage of total supply	Quantity			Percentage of total supply	
			Fresh and frozen	Canned	Total		
	Thousand pounds	Percent	Thousand pounds			Percent	Thousand pounds
1979.....	37,184	54.5	22,790	8,307	31,097	45.5	68,281
1980.....	36,952	53.4	22,503	9,699	32,202	46.6	69,154
1981.....	37,494	48.2	26,857	13,459	40,316	51.8	77,810
1982.....	39,445	48.6	26,205	15,480	41,685	51.4	81,130
1983.....	44,206	47.7	43,439	4,977	48,416	52.3	92,622
1984.....	43,967	43.9	54,359	1,783	56,142	56.1	100,109
1985.....	46,152	42.9	57,358	4,029	61,387	57.1	107,539
1986.....	46,053	40.8	65,276	1,633	66,909	59.2	112,962
1987.....	45,558	40.0	66,585	2,956	69,541	60.0	115,099
1988.....	*48,643	40.1	69,790	2,756	*72,546	59.9	*121,189

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 4.50, meat; and 4.64, canned. *Record.



U.S. SUPPLY OF SPINY LOBSTERS,1979-88
(Round weight)

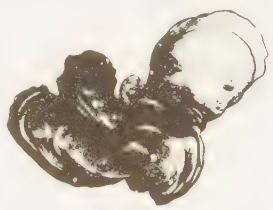
Year	U.S. commercial landings		Imports (1)				Total supply
	Quantity	Percentage of total supply	Quantity			Percentage of total supply	
			Fresh and frozen	Canned	Total		
	Thousand pounds	Percent	Thousand pounds			Percent	Thousand pounds
1979.....	6,301	4.0	150,470	604	151,074	96.0	157,375
1980.....	6,861	5.4	119,817	395	120,212	94.6	127,073
1981.....	6,619	4.9	126,210	978	127,188	95.1	133,807
1982.....	6,438	5.1	120,679	230	120,909	94.9	127,347
1983.....	5,218	3.8	131,102	588	131,690	96.2	136,908
1984.....	6,303	4.1	146,990	79	147,069	95.9	153,372
1985.....	5,311	3.5	148,324	253	148,577	96.5	153,888
1986.....	6,775	4.5	144,933	164	145,097	95.5	151,872
1987.....	5,755	3.8	145,093	613	145,706	96.2	151,461
1988.....	7,166	5.1	131,837	234	132,071	94.9	139,237

(1) Imports were converted to round (live) weight by using these conversion factors: 1.00, whole; 3.00, tails; 4.35, other; and 4.50 canned. *Records -- 1972 landings, 12,215,000 lb; 1976 imports, 168,095,000; and 1976 total supply, 173,738,000 lb.

U.S. SUPPLY OF OYSTERS, 1979-88
(Meat weight)

Year	U.S. commercial landings			Imports (2)	Total supply
	Eastern	Pacific (1)	Total		
	Thousand pounds				
1979	42,901	7,461	50,362	27,131	77,493
1980	44,132	6,694	50,826	21,732	72,558
1981	46,605	6,007	52,612	25,769	78,381
1982	48,820	7,369	56,189	27,529	83,718
1983	46,706	7,342	54,048	30,775	84,823
1984	46,035	8,739	54,774	36,086	90,860
1985	43,085	7,796	50,881	45,926	96,807
1986	39,140	9,629	48,769	50,038	98,807
1987	29,957	9,850	39,807	*52,085	91,892
1988	23,916	7,976	31,892	46,414	78,306

(1) Includes Western and Eastern oyster landings for Washington and California. (2) Imports were converted to meat weight by using these conversion factors: 0.93, canned; 3.12, canned smoked; and 0.75, other. *Record. Record - 1908 landings: 152,046,000 lb.



U.S. SUPPLY OF SCALLOP MEATS, 1979-88
(Meat weight)

Year	U.S. commercial landings				Imports	Total supply
	Bay	Calico	Sea	Total		
	Thousand pounds					
1979	1,774	863	31,466	34,103	25,155	59,258
1980	968	-	28,752	29,720	20,885	50,605
1981	670	14,641	30,277	45,588	26,227	71,815
1982	1,780	11,010	21,325	34,115	20,860	54,975
1983	2,338	9,606	20,478	32,422	34,280	66,702
1984	1,728	39,330	18,427	*59,485	27,270	*86,755
1985	1,331	12,513	15,829	29,673	42,035	71,708
1986	735	1,616	19,992	22,343	*47,916	70,259
1987	580	8,155	32,038	40,773	39,934	80,707
1988	569	11,868	30,557	42,994	32,039	75,033

*Record.

U.S. SUPPLY OF ALL FORMS OF SHRIMP, 1979-88
(Heads-off weight)

Year	U.S. Commercial landings	Imports (1)	Total	Exports (2)				Total supply
				Fresh and frozen		Canned		
				Domestic	Foreign	Domestic	Foreign	
	Thousand pounds							
1979.....	205,587	269,263	474,850	34,143	5,826	11,047	63	423,771
1980.....	207,869	258,069	465,938	18,777	9,567	11,781	*935	424,878
1981.....	218,900	259,112	478,012	20,777	13,687	9,181	78	434,289
1982.....	175,613	319,596	495,209	18,350	12,738	6,064	45	458,012
1983.....	155,591	421,179	576,770	21,776	6,560	7,573	28	540,833
1984.....	188,132	422,340	610,472	15,961	5,069	5,478	83	583,881
1985.....	207,239	452,232	659,471	17,708	5,735	3,159	338	632,531
1986.....	244,409	492,005	736,414	23,650	2,548	3,967	285	705,964
1987.....	223,514	583,030	*806,544	25,938	2,947	4,714	214	*772,731
1988.....	203,350	*598,210	801,560	26,097	4,183	4,068	436	766,776

(1) Imports were converted to heads-off weight by using these conversion factors: 0.63, breaded; 1.00, shell-on; 1.28, peeled raw; 2.52, canned; and 2.40, other. (2) Exports were converted to heads-off weight by using these conversion factors: domestic--fresh and frozen, 1.18 and canned 2.02; foreign--fresh and frozen, 1.00 and canned, 2.52.

*Record. Records--1977 U.S. commercial landings: 288,443,000 lb heads-off weight; 1973 fresh and frozen domestic exports: 44,172,000 lb; 1970 fresh and frozen foreign exports: 14,699,000 lb; and 1973 domestic canned: 20,097,000 lb.

U.S. SUPPLY OF CANNED SHRIMP, 1979-88
(Canned weight)

Year	U.S. pack	Percentage of total	Imports	Percentage of total	Total	Exports		Total supply
						Domestic	Foreign	
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds			
1979.....	11,118	72.2	4,288	27.8	15,406	5,469	25	9,912
1980.....	15,289	78.3	4,225	21.7	19,514	5,832	*371	13,311
1981.....	9,693	68.9	4,383	31.1	14,076	4,545	31	9,500
1982.....	6,276	54.1	5,332	45.9	11,608	3,002	18	8,588
1983.....	6,723	33.8	13,176	66.2	19,899	3,749	11	16,139
1984.....	7,246	34.8	13,580	65.2	20,826	2,712	33	18,081
1985.....	4,001	19.0	17,088	81.0	21,089	1,564	134	19,391
1986.....	4,596	22.6	15,757	77.4	20,353	1,964	113	18,276
1987.....	4,382	20.4	17,132	79.6	21,514	2,334	85	19,095
1988.....	4,475	24.0	14,138	76.0	18,613	2,014	173	16,426

(1) Revised. *Record. Records--1973 U.S. pack: 25,228,000 lb; 1970 total: 29,001,000 lb; 1973 domestic exports: 9,949,000 lb.

U.S. SUPPLY OF FISH MEAL AND SOLUBLES, 1979-88
(Product weight)

Year	Domestic production (1)		Imports (2)		Total
	Thousand pounds	Percent	Thousand pounds	Percent	Thousand pounds
1979	883,514	83.1	179,226	16.9	1,062,740
1980	857,526	89.6	99,074	10.4	956,600
1981	765,640	86.6	118,868	13.4	884,508
1982	899,356	84.2	168,664	15.8	1,068,020
1983	*922,040	87.2	135,880	12.8	1,057,920
1984	877,566	84.0	166,888	16.0	1,044,454
1985	883,196	63.4	510,654	36.6	1,393,850
1986	799,826	68.3	370,548	31.7	1,170,374
1987	911,622	69.8	393,730	30.2	1,305,352
1988	755,520	74.0	265,310	26.0	1,020,830

(1) Includes shellfish meal production plus the production of U.S. solubles. (2) Data do not include imports of fish solubles. *Record. Records--1968 imports: 1,712,344,000 lb, 1968 total supply: 2,254,450,000 lb.
Note:--Wet weight of solubles has been converted to dry weight by reducing its poundage by one-half.

U.S. SUPPLY OF FISH MEAL, 1979-88
(Product weight)

Year	Domestic production (1)	Imports	Total	Exports	
				Domestic	Foreign
	Thousand pounds				
1979	748,586	179,226	927,812	31,402	1,510
1980	723,844	99,074	822,918	170,562	2,942
1981	637,018	118,868	755,886	94,054	5,384
1982	746,854	168,664	915,518	35,880	4,662
1983	763,536	135,880	899,416	154,834	6,848
1984	751,528	166,888	918,416	40,356	1,234
1985	721,682	510,654	1,232,336	69,166	808
1986	702,194	370,548	1,072,742	77,020	952
1987	*786,978	393,730	1,180,962	103,422	664
1988	643,796	265,310	909,106	246,306	3,684

(1) Includes shellfish meal. *Record. Records--1968 imports: 1,710,570,000 lb; 1968 total supply 2,180,842,000 lb.

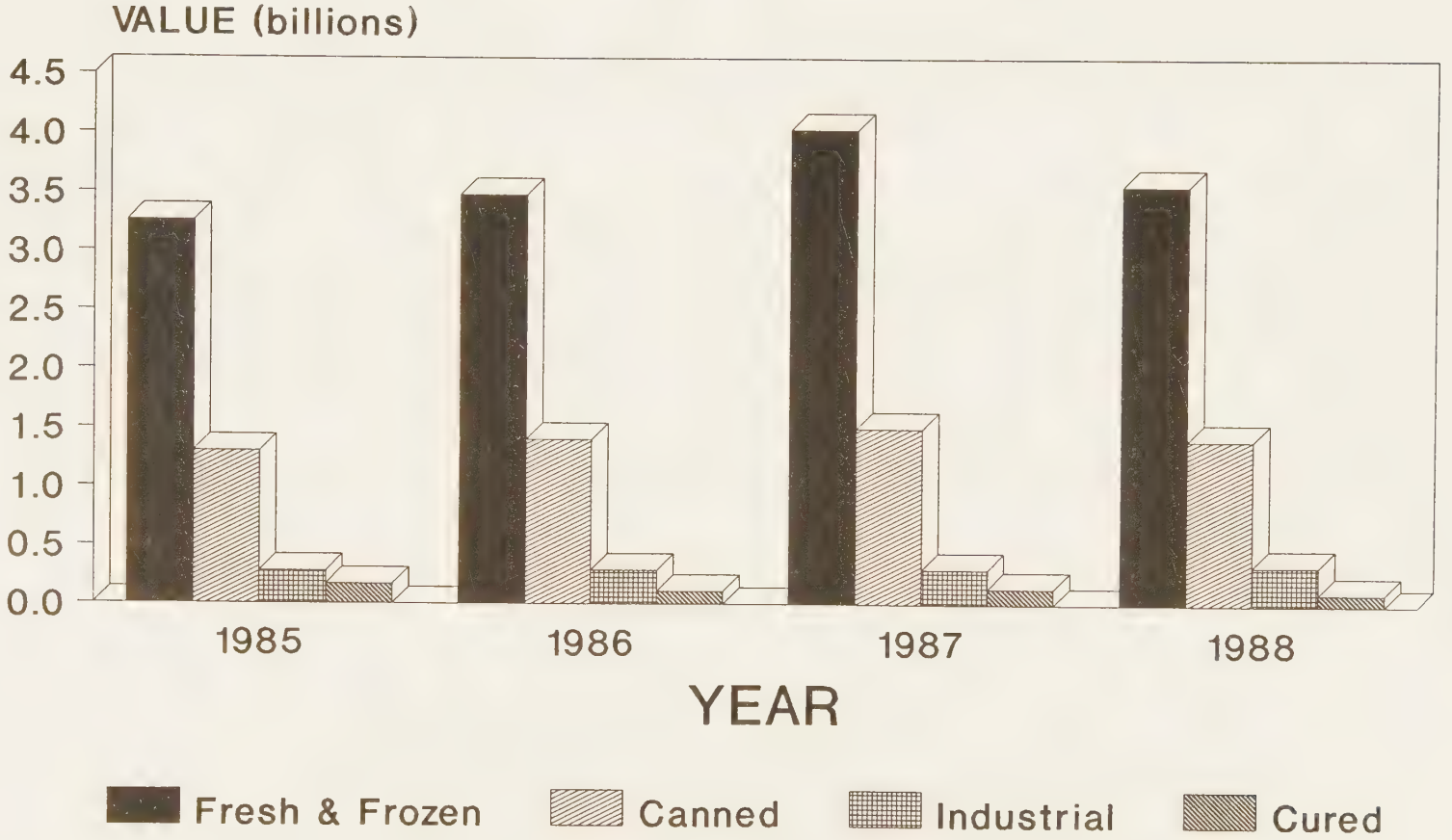
U.S. SUPPLY OF FISH OILS, 1979-88

Year	Domestic production	Imports (1)	Total	Exports	Total supply
	Thousand pounds				
1979	267,949	14,455	282,404	198,497	83,907
1980	312,511	21,350	333,861	284,009	49,852
1981	184,302	18,255	202,557	238,308	(2)
1982	347,513	12,699	360,212	202,345	157,867
1983	*399,334	15,334	414,668	*404,087	10,581
1984	372,804	13,426	386,230	399,425	(2)
1985	285,077	17,254	302,331	279,080	23,251
1986	336,708	19,212	355,920	192,214	163,706
1987	298,496	25,697	324,193	249,119	75,074
1988	224,733	24,005	248,738	149,279	99,459

(1) Excludes fish liver oils. (2) The 1981 and 1984 exports, which included prior year stocks, exceeded domestic production plus imports. *Record.

Note:--Does not include exports of foreign merchandise.

VALUE OF PROCESSED FISHERY PRODUCTS
FROM DOMESTIC CATCH & IMPORTED PRODUCTS
1985 - 1988



PER CAPITA

U.S. CONSUMPTION

Annual per capita consumption of seafood products represents the pounds of edible meat consumed from domestically-caught and imported fish and shellfish adjusted for beginning and ending inventories, and exports, divided by the civilian population of the United States as of July 1 of each year.

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-88

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and Frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	Pounds, edible meat			
1909 (5)	90.5	4.3	2.7	*4.0	11.0
1910	92.2	4.5	2.8	3.9	11.2
1911	93.9	4.8	2.8	3.7	11.3
1912	95.3	5.0	2.9	3.4	11.3
1913	97.2	5.3	2.9	3.3	11.5
1914	99.1	5.6	3.0	3.1	11.7
1915	100.5	5.8	2.4	3.0	11.2
1916	102.0	6.0	2.2	2.8	11.0
1917	103.3	6.2	2.0	2.7	10.9
1918	103.2	6.4	2.0	2.5	10.9
1919	104.5	6.4	2.8	2.4	11.6
1920	106.5	6.3	3.2	2.3	11.8
1921	108.5	6.2	2.2	2.1	10.5
1922	110.0	6.1	3.2	2.0	11.3
1923	111.9	6.0	2.9	1.8	10.7
1924	114.1	6.1	3.2	1.7	11.0
1925	115.8	6.3	3.2	1.6	11.1
1926	117.4	6.6	3.4	1.4	11.4
1927	119.0	7.0	3.9	1.3	12.2
1928	120.5	7.1	3.9	1.1	12.1
1929	121.8	6.9	3.9	1.1	11.9
1930	122.9	5.8	3.4	1.0	10.2
1931	123.9	4.9	3.2	0.7	8.8
1932	124.7	4.3	3.4	0.7	8.4
1933	125.4	4.2	3.9	0.6	8.7
1934	126.2	4.3	4.2	0.7	9.2
1935	127.1	5.1	4.7	0.7	10.5
1936	127.9	5.2	*5.8	0.7	11.7
1937	128.6	5.6	5.3	0.9	11.8
1938	129.6	5.2	4.8	0.8	10.8
1939	130.7	5.3	4.7	0.7	10.7
1940	132.1	5.7	4.6	0.7	11.0
1941	132.1	6.3	4.2	0.7	11.2
1942	131.4	5.2	2.9	0.6	8.7
1943	128.0	5.5	1.8	0.6	7.9
1944	127.2	5.5	2.6	0.6	8.7
1945	128.1	6.6	2.6	0.7	9.9
1946	138.9	5.9	4.2	0.7	10.8
1947	143.1	5.8	3.8	0.7	10.3
1948	145.7	6.0	4.4	0.7	11.1
1949	148.2	5.8	4.5	0.6	10.9
1950	150.8	6.3	4.9	0.6	11.8
1951	151.6	6.3	4.3	0.6	11.2
1952	153.9	6.2	4.3	0.7	11.2
1953	156.6	6.4	4.3	0.7	11.4
1954	159.7	6.2	4.3	0.7	11.2
1955	163.0	5.9	3.9	0.7	10.5
1956	166.1	5.7	4.0	0.7	10.4
1957	169.1	5.5	4.0	0.7	10.2
1958	172.2	5.7	4.3	0.6	10.6
1959	175.3	5.9	4.4	0.6	10.9

See footnotes at end of table.

(Continued)

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF COMMERCIAL FISH AND SHELLFISH, 1909-88

Year	Civilian resident population July 1 (1)	Per capita consumption			
		Fresh and Frozen (2)	Canned (3)	Cured (4)	Total
	Million persons	Pounds, edible meat			
1960	178.1	5.7	4.0	0.6	10.3
1961	181.1	5.9	4.3	0.5	10.7
1962	183.7	5.8	4.3	0.5	10.6
1963	186.5	5.8	4.4	0.5	10.7
1964	189.1	5.9	4.1	0.5	10.5
1965	191.6	6.0	4.3	0.5	10.8
1966	193.4	6.1	4.3	0.5	10.9
1967	195.3	5.8	4.3	0.5	10.6
1968	197.1	6.2	4.3	0.5	11.0
1969	199.1	6.6	4.2	0.4	11.2
1970	201.9	6.9	4.5	0.4	11.8
1971	204.9	6.7	4.3	0.5	11.5
1972	207.5	7.1	4.9	0.5	12.5
1973	209.6	7.4	5.0	0.4	12.8
1974	211.6	6.9	4.7	0.5	12.1
1975	213.8	7.5	4.3	0.4	12.2
1976	215.9	8.2	4.2	0.5	12.9
1977	218.1	7.7	4.6	0.4	12.7
1978 (6)	220.5	8.1	5.0	0.3	13.4
1979 (6)	223.0	7.8	4.8	0.4	13.0
1980 (6)	225.6	8.0	4.5	0.3	12.8
1981 (6)	227.7	7.8	4.8	0.3	12.9
1982 (6)	229.9	7.7	4.3	0.3	12.3
1983 (6)	232.0	8.0	4.8	0.3	13.1
1984 (6)	234.8	8.5	4.9	0.3	13.7
1985 (6)	237.0	9.0	5.1	0.3	14.4
1986 (6)	239.4	9.0	5.4	0.3	14.7
1987 (6)	241.5	*10.0	5.1	0.3	*15.4
1988 (6)	243.9	9.6	5.1	0.3	15.0

(1) Resident population for 1909 to 1929 and civilian resident population for 1930 to date.

(2) Fresh and frozen fish consumption from 1910 to 1928 is estimated. Beginning in 1973, data include consumption of artificially cultivated catfish.

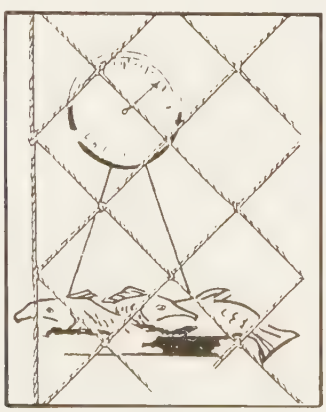
(3) Canned fish consumption for 1911 to 1920 is estimated. Beginning in 1921, it is based on production reports, packer stocks, and foreign trade statistics for individual years.

(4) Cured fish consumption for 1910 to 1928 is estimated.

(5) Data for 1909 estimated based on the 1908 census and foreign trade data.

(6) Domestic landings data used in calculating these data are preliminary. *Record.

Note:--These consumption figures refer only to consumption of fish and shellfish entering commercial channels, and they do not include data on consumption of recreationally caught fish and shellfish which since 1970 is estimated to be between 3 to 4 pounds (edible meat) per person annually. The figures are calculated on the basis of raw edible meat, i.e. excluding bones, viscera, shells, etc. From 1970 through 1980 data, were revised to reflect the results of the 1980 census.



PER CAPITA

U.S. CONSUMPTION

U.S. ANNUAL PER CAPITA CONSUMPTION OF CANNED FISHERY PRODUCTS, 1968-88

Year	Salmon	Sardines	Tuna	Shellfish	Other	Total
	Pounds					
1968	0.7	0.4	2.4	0.5	0.3	4.3
1969	0.7	0.4	2.4	0.5	0.2	4.2
1970	0.7	0.4	2.5	0.5	0.4	4.5
1971	0.7	0.4	2.4	0.5	0.3	4.3
1972	0.7	0.4	2.9	0.5	0.4	4.9
1973	0.4	0.5	3.1	0.5	0.5	5.0
1974	0.3	0.4	3.1	0.5	0.4	4.7
1975	0.3	0.2	2.9	0.5	0.4	4.3
1976	0.3	0.3	2.8	0.4	0.4	4.2
1977	0.5	0.3	2.8	0.6	0.4	4.6
1978 (1)	0.6	0.3	3.3	0.5	0.3	5.0
1979 (1)	0.5	0.3	3.2	0.5	0.3	4.8
1980 (1)	0.5	0.3	2.9	0.5	0.3	4.5
1981 (1)	0.5	0.4	3.1	0.5	0.3	4.8
1982 (1)	0.5	0.3	2.7	0.4	0.4	4.3
1983 (1)	0.5	0.2	3.1	0.6	0.4	4.8
1984 (1)	0.6	0.2	3.2	0.4	0.5	4.9
1985 (1)	0.5	0.3	3.3	0.5	0.5	5.1
1986 (1)	0.5	0.3	3.6	0.4	0.6	5.4
1987 (1)	0.4	0.3	3.5	0.5	0.4	5.1
1988 (1)	0.3	0.3	3.6	0.4	0.5	5.1

(1) Preliminary. Note:--From 1970 through 1980, data were revised to reflect the results or the 1980 census.

U.S. ANNUAL PER CAPITA CONSUMPTION OF CERTAIN FISHERY ITEMS, 1968-88

Year	Fillets and steaks (1)	Sticks and portions	Shrimp all Preparation
	Pounds (2)		
1968	1.9	1.3	1.4
1969	2.0	1.6	1.3
1970	2.2	1.7	1.5
1971	2.0	1.6	1.4
1972	2.3	1.8	1.4
1973	2.5	2.0	1.4
1974	2.1	1.8	1.5
1975	2.4	1.8	1.4
1976	2.5	2.0	1.5
1977	2.5	2.0	1.6
1978 (3)	2.7	2.2	1.5
1979 (3)	2.7	*2.2	1.3
1980 (3)	2.6	1.9	1.4
1981 (3)	2.7	1.8	1.5
1982 (3)	2.7	1.7	1.5
1983 (3)	2.9	1.8	1.7
1984 (3)	3.0	1.8	1.9
1985 (3)	*3.2	1.8	2.0
1986 (3)	3.2	1.8	2.2
1987 (3)	3.2	1.7	2.3
1988 (3)	3.0	1.5	*2.4

(1) Data include groundfish and other species. Data do not include blocks, but fillets could be made into blocks from which sticks and portions could be produced.
(2) Product weight of fillets and steaks and sticks and portions, edible (meat) weight of shrimp.
(3) Domestic landings data used in calculating these data are preliminary. *Record.

Note:--From 1970 through 1980, data were revised to reflect the results of the 1980 census.

PER CAPITA

U.S. USE

Per capita use of commercial fish and shellfish is based on the supply of fishery products, both edible and nonedible (industrial), on a round weight equivalent basis, without considering beginning or ending stocks, defense purchases, or exports (see page 67).

Per capita use figures are not comparable with per capita consumption data (see page 77). Per capita consumption figures represent edible (for human use) meat weight consumption rather than round weight consumption. In addition, per capita consumption includes allowances for beginning and ending stocks, and ending stocks and exports, whereas the use does not include such allowances.

Per capita use is derived by using total population including U.S. Armed Forces overseas. The per capita consumption is derived by using civilian resident population.

U.S ANNUAL PER CAPITAL USE OF COMMERCIAL FISH AND SHELLFISH, 1954-88

Year	Total population including armed forces overseas July 1	Total U.S. supply (1)	Per capita utilization		
			Commercial landings	Imports	Total
	Million persons	Million pounds	Pounds		
1954	163.0	7,593	29.2	17.4	46.6
1955	165.9	7,121	29.0	13.9	42.9
1956	168.9	7,569	31.2	13.6	44.8
1957	172.0	7,164	27.9	13.8	41.7
1958	174.9	7,526	27.1	15.9	43.0
1959	177.8	8,460	28.8	18.8	47.6
1960	180.7	8,223	27.3	18.2	45.5
1961	183.7	9,570	28.2	23.9	52.1
1962	186.5	10,408	28.7	27.1	55.8
1963	189.2	11,434	25.6	34.8	60.4
1964	191.9	12,031	23.7	39.0	62.7
1965	194.3	10,535	24.6	29.6	54.2
1966	196.6	12,469	22.2	41.2	63.4
1967	198.7	13,991	20.4	50.0	70.4
1968	200.7	17,381	20.7	65.9	86.6
1969	202.7	11,847	21.4	37.0	58.4
1970	205.1	11,474	24.0	31.9	55.9
1971	207.7	11,804	24.1	32.7	56.8
1972	209.9	13,849	22.9	43.1	66.0
1973	211.9	10,378	22.9	26.1	49.0
1974	213.9	9,875	23.2	23.0	46.2
1975	216.0	10,164	22.6	24.5	47.1
1976	218.0	11,593	24.7	28.5	53.2
1977	220.2	10,652	23.9	24.4	48.3
1978 (2)	222.6	11,509	27.1	24.6	51.7
1979 (2)	225.1	11,831	27.9	24.7	52.6
1980 (2)	227.7	11,357	28.5	21.4	49.9
1981 (2)	229.8	11,353	26.0	23.4	49.4
1982 (2)	232.1	12,011	27.5	24.3	51.8
1983 (2)	234.2	12,352	27.5	25.2	52.7
1984 (2)	237.0	12,552	27.2	25.8	53.0
1985 (2)	239.3	15,061	26.2	36.8	63.0
1986 (2)	241.6	14,368	25.0	34.5	59.5
1987 (2)	243.8	15,744	28.3	36.3	64.6
1988 (2)	246.1	14,628	29.2	30.2	59.4

(1) Data include U.S. commercial landings and imports of both edible and nonedible (industrial) fishery products on a roundweight basis. "Total supply" is not adjusted for beginning and ending stocks, defense purchases, or exports.

(2) Domestic landings data used in calculating these data are preliminary.

Note:--From 1970 through 1980, population and per capital utilization data were revised to reflect the results of the 1980 census.

PER CAPITA

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1982-84 AVERAGE

Region and country	Estimated live weight equivalent	
	Kilograms	Pounds
North America:		
Canada	21.4	47.2
United States	17.4	38.4
Caribbean:		
Antigua	26.0	57.3
Bahamas	14.1	31.1
Barbados	33.6	74.1
British Virgin Islands	25.1	55.3
Cayman Islands	33.6	74.1
Cuba	20.1	44.3
Dominica	19.6	43.2
Dominican Republic	6.8	15.0
Grenada	19.4	42.8
Guadeloupe	49.2	108.5
Haiti	3.7	8.2
Jamaica	17.0	37.5
Martinique	47.6	104.9
Montserrat	9.3	20.5
Netherland Antilles	15.2	33.5
St. Christopher-Nevis	33.8	74.5
Saint Lucia	16.9	37.3
St. Vincent	11.2	24.7
Trinidad-Tobago	16.2	35.7
Latin America:		
Argentina	5.7	12.6
Belize	7.0	15.4
Bolivia	1.6	3.5
Brazil	6.2	13.7
Chile	18.7	41.2
Colombia	3.3	7.3
Costa Rica	2.8	6.2
Ecuador	14.2	31.3
El Salvador	1.4	3.1
French Guiana	37.0	81.6
Guatemala	0.5	1.1
Guyana	28.4	62.6
Honduras	1.0	2.2
Mexico	9.9	21.8
Nicaragua	1.0	2.2
Panama	14.4	31.7
Paraguay	1.1	2.4
Peru	20.0	44.1
Suriname	14.1	31.1
Uruguay	11.3	24.9
Venezuela	11.8	26.0
Europe:		
Albania	4.7	10.4
Austria	6.5	14.3
Belgium and Luxembourg	18.8	41.4
Bulgaria	8.6	19.0
Czechoslovakia	4.6	10.1
Denmark	22.0	48.5
Fed. Republic of Germany	9.3	20.5
Finland	34.3	75.6
France	24.8	54.7
German Democratic Republic	14.4	31.7
Greece	17.8	39.2
Hungary	4.7	10.4
Iceland	88.4	194.9
Europe - Continued:		
Ireland	13.2	29.1
Italy	15.4	34.0
Malta	11.5	25.4
Netherlands	9.6	21.2
Norway	46.0	101.4
Poland	17.4	38.4
Portugal	36.6	80.7
Romania	9.2	20.3
Spain	34.2	75.4
Sweden	29.4	64.8
Switzerland	11.6	25.6
United Kingdom	17.7	39.0
Yugoslavia	3.4	7.5
USSR	27.3	60.2
Near East:		
Afghanistan	0.1	0.2
Bahrain	18.5	40.8
Cyprus	10.1	22.3
Egypt	5.5	12.1
Iran	2.9	6.4
Iraq	1.5	3.3
Israel	14.2	31.3
Jordan	4.0	8.8
Kuwait	5.9	13.0
Lebanon	0.5	1.1
Libya	5.8	12.8
Oman	35.5	78.3
Qatar	12.4	27.3
Saudi Arabia	9.9	21.8
Sudan	1.4	3.1
Syria	1.6	3.5
Turkey	7.6	16.8
United Arab Emirates	28.8	63.5
Yemen Arab Republic	3.4	7.5
Yemen (Aden)	25.1	55.3
Far East:		
Bangladesh	7.4	16.3
Brunei	37.7	83.1
Burma	14.7	32.4
Cambodia	9.1	20.1
China	4.9	10.8
Hong Kong	45.0	99.2
India	3.1	6.8
Indonesia	12.6	27.8
Japan	74.5	164.2
Laos	5.1	11.2
Macao	31.6	69.7
Maldives	44.4	97.9
Malaysia	44.1	97.2
Mongolia	1.0	2.2
Nepal	0.3	0.7
North Korea	39.3	86.6
Pakistan	1.7	3.7
Philippines	35.7	78.7
Republic of Korea	44.4	97.9
Singapore	35.7	78.7
Sri Lanka	15.5	34.2
Thailand	21.6	47.6
Vietnam	12.0	26.5

See note at end of table.

(Continued)

WORLD CONSUMPTION

ANNUAL PER CAPITA CONSUMPTION OF FISH AND SHELLFISH FOR HUMAN FOOD, BY REGION AND COUNTRY, 1982-84 AVERAGE - Continued

Region and country	Estimated live weight equivalent	
	Kilograms	Pounds
Africa:		
Algeria	3.4	7.5
Angola	8.0	17.6
Benin	7.2	15.9
Botswana	2.5	5.5
Burkina	1.5	3.3
Burundi	2.9	6.4
Cameroon	12.6	27.8
Cape Verde	30.4	67.0
Central African Republic	5.3	11.7
Chad	16.9	37.3
Comoros	12.3	27.1
Congo (Brazaville)	33.4	73.6
Equatorial Guinea	19.9	43.9
Ethiopia	0.1	0.2
Gabon	24.3	53.6
Gambia	17.7	39.0
Ghana	19.4	42.8
Guinea	6.2	13.7
Guinea-Bissau	2.7	6.0
Ivory Coast	16.9	37.3
Kenya	4.7	10.4
Lesotho	2.9	6.4
Liberia	15.7	34.6
Madagascar	5.2	11.5
Malawi	9.2	20.3
Mali	8.0	17.6
Mauritania	15.2	33.5
Mauritius	14.3	31.5
Morocco	6.6	14.6
Mozambique	3.9	8.6
Namibia	22.5	49.6
Niger	0.9	2.0
Nigeria	11.5	25.4
Republic of South Africa	9.6	21.2
Reunion	22.6	49.8
Rwanda	0.2	0.4
Sao Tome	37.6	82.9
Senegal	22.6	49.8
Seychelles	47.5	104.7
Sierra Leone	17.9	39.5
Somalia	2.0	4.4
Swaziland	0.1	0.2
Tanzania	11.8	26.0
Togo	11.9	26.2
Tunisia	8.7	19.2
Uganda	12.8	28.2
Zaire	6.4	14.1
Zambia	10.8	23.8
Zimbabwe	2.1	4.6
Oceania:		
Australia	16.0	35.3
Fiji	41.8	92.2
French Polynesia	33.4	73.6
New Caledonia	21.7	47.8
New Zealand	12.2	26.9
Paupa New Guinea	15.1	33.3
Tonga	28.0	61.7
Vanuatu	26.2	57.8
Western Samoa	42.4	93.5
World	12.1	26.7

Note:--Data for most countries are tentative. Aquatic plants are include where applicable. Revised data.

Source:--Food and Agriculture Organization of the United Nations (FAO) Yearbook of Fishery Statistics, 1986 vol. 63, Rome.

The procedures for calculating the Index of Exvessel Prices for all fish and shellfish was reviewed and modified in 1986. Major changes in the U.S. fishing industry had occurred since the index was originally designed. The result was that the "market basket" or group of species used to calculate the index was no longer representative of the trends for all fish and shellfish. The index has been recalculated with a new market basket and 1986 as the base year.

In the table that follows, the exvessel price for any given year was obtained by dividing total value by total quantity as reported in the catch by species in the distance from shore tables. The index for each species or group was obtained by multiplying the current annual price by the total quantity caught in 1986 (the base year). That number was then divided by the 1986 value to obtain the final index:

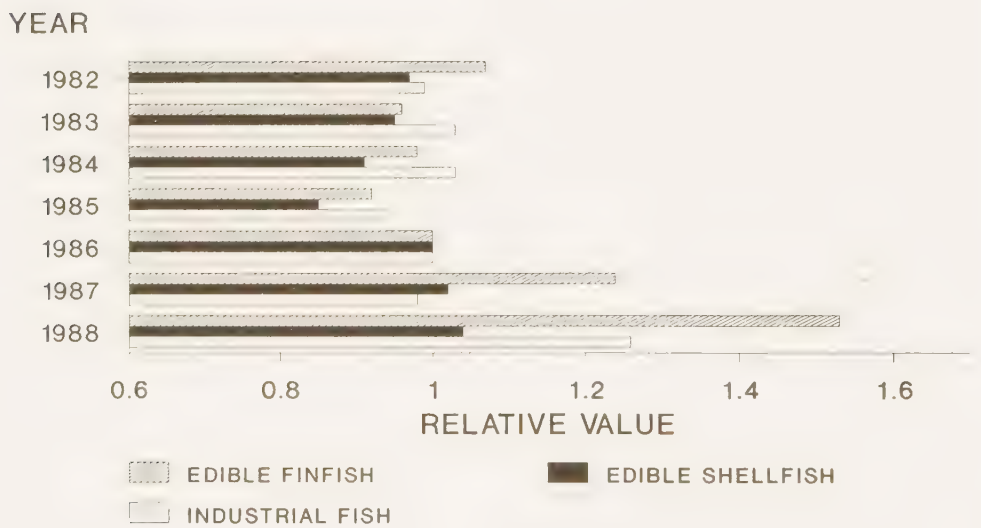
$$\frac{\text{(Current price X 1986 quantity)}}{\text{1986 Annual Value}} = \text{Index}$$

Each index number calculated for years other than the base year of 1986 measures price changes from the reference period (1986) which equals 1.00. A species of fish that sold for $0.75 a pound in 1982 and a $1.00 a pound in 1986 would have an index of 0.75 in 1982. In 1988, if the price of the same species increases 5 percent to $1.05, the index in 1988 would be 1.05.

INDEXES OF EXVESSEL PRICES

1982 - 1988

(1986 = 1.00)



INDEXES OF EXVESSEL PRICES FOR FISH AND SHELLFISH, BY YEARS, 1982-88
(1986=1.00)

Species	1982(1)	1983(1)	1984(1)	1985(1)	1986(1)	1987(1)	1988
GROUNDFISH:							
COD	1.44	1.16	1.11	1.09	1.00	1.27	0.95
HADDOCK	0.50	0.59	0.71	0.94	1.00	1.28	1.10
ATLANTIC POLLOCK	0.87	0.68	0.63	0.62	1.00	1.52	1.30
ALASKA POLLOCK	1.17	0.87	0.90	0.93	1.00	1.30	1.42
FLOUNDERS	1.55	1.53	1.63	1.09	1.00	1.08	0.85
TOTAL GROUNDFISH	1.36	1.20	1.25	1.02	1.00	1.20	1.07
HALIBUT	0.81	0.84	0.50	0.59	1.00	1.09	0.83
SEA HERRING	0.75	1.05	0.62	1.08	1.00	1.08	1.21
SALMON:							
CHINOOK	1.11	0.78	1.05	0.97	1.00	1.22	1.57
CHUM	1.12	1.08	0.99	0.98	1.00	1.27	2.30
PINK	1.10	1.21	1.22	1.15	1.00	1.62	3.50
SOCKEYE	0.62	0.49	0.59	0.70	1.00	1.10	1.60
COHO	1.25	0.84	1.14	1.11	1.00	1.81	2.48
TOTAL SALMON	0.82	0.67	0.79	0.84	1.00	1.25	1.94
SWORDFISH	0.87	0.85	0.92	0.86	1.00	1.14	1.06
TUNA:							
ALBACORE	1.28	1.14	1.16	1.00	1.00	1.43	1.58
BLUEFIN	1.24	3.15	3.65	1.99	1.00	5.98	7.27
SKIPJACK	1.47	1.22	1.17	0.97	1.00	1.18	1.51
YELLOWFIN	1.39	1.28	1.23	1.05	1.00	1.28	1.59
TOTAL TUNA	1.41	1.31	1.29	1.05	1.00	1.40	1.74
TOTAL EDIBLE FINFISH	1.07	0.96	0.98	0.92	1.00	1.24	1.53
CLAMS:							
HARD	0.84	0.75	0.85	0.77	1.00	1.09	1.38
OCEAN QUAHOG	0.90	0.88	0.88	0.88	1.00	0.95	0.93
SOFT	0.58	0.66	0.80	0.87	1.00	0.85	0.88
SURF	0.96	0.82	0.90	0.99	1.00	0.85	0.85
TOTAL CLAMS	0.85	0.78	0.87	0.88	1.00	0.96	1.07
CRABS:							
BLUE	0.80	0.91	0.88	0.89	1.00	1.14	1.23
DUNGENESS	0.73	0.98	1.15	1.07	1.00	1.01	0.89
KING	0.88	0.78	0.69	0.77	1.00	1.01	1.19
SNOW	1.39	1.16	0.94	0.79	1.00	1.14	1.24
TOTAL CRABS	1.01	0.96	0.87	0.84	1.00	1.08	1.18
AMERICAN LOBSTER	0.88	0.92	0.99	0.95	1.00	1.12	1.14
OYSTERS	0.73	0.70	0.87	0.82	1.00	1.21	1.28
SCALLOPS:							
BAY	0.44	0.62	0.55	0.50	1.00	0.61	0.68
CALICO	0.54	0.65	0.29	0.52	1.00	0.57	0.55
SEA	0.75	1.12	1.09	0.97	1.00	0.85	0.86
TOTAL SCALLOPS	0.73	1.07	1.03	0.93	1.00	0.82	0.84
SHRIMP:							
GULF AND SOUTH ATLANTIC	1.08	1.14	0.91	0.83	1.00	0.97	0.98
OTHER	0.88	1.24	0.94	0.84	1.00	1.36	0.90
TOTAL SHRIMP	1.07	1.14	0.91	0.83	1.00	0.99	0.97
TOTAL EDIBLE SHELLFISH	0.98	0.95	0.91	0.85	1.00	1.02	1.04
TOTAL EDIBLE FISH AND SHELLFISH	1.02	0.96	0.95	0.89	1.00	1.12	1.27
INDUSTRIAL FISH:							
MENHADEN	0.99	1.03	1.03	0.94	1.00	0.98	1.26
ALL FISH	1.02	0.96	0.95	0.89	1.00	1.12	1.27

(1) Revised.

VALUE ADDED

SUMMARY OF 1988 VALUE ADDED, MARGINS, AND CONSUMER EXPENDITURES FOR COMMERCIAL MARINE FISHERY PRODUCTS IN THE UNITED STATES (1)

SECTOR OR TYPE OF ACTIVITY	PURCHASES OF FISHERY INPUTS	MARK-UP OF FISHERY INPUTS	TOTAL MARK-UP WITHIN SECTOR	VALUE ADDED AS % OF TOTAL MARK-UP	VALUE ADDED WITHIN SECTOR	VALUE OF SALES BY SECTOR	VALUE ADDED CONTRIBUTION	OFFSHORE FLEET & EXPORTED FISHERY PRODUCTS
	Thousand Dollars	Percentage of Fishery Inputs	Thousand Dollars	Percentage	Thousand Dollars	Thousand Dollars	Percentage of GNP Contribution	Thousand Dollars
Domestic Harvest:								
Edible	-	100.0	$3,414,555	62.89	$2,147,477	$3,414,555	13.1	-
Industrial	-	100.0	$105,704	59.63	$63,027	$105,704	0.4	-
Harvest not landed in U.S.	-	100.0	$489,809	63.80	$312,523	$489,809	1.9	$489,809
Imports, Unprocessed	$2,051,718	-	-	-	-	$2,051,718	-	-
Exports, Unprocessed	-	-	-	-	-	-	-	$1,238,241
Primary Wholesale and Processing	$4,333,736	90.7	$3,932,448	57.50	$2,262,144	$8,266,184	13.8	-
Imports, Processed	$3,466,898	-	-	-	-	$3,466,898	-	-
Exports, Processed	-	-	-	-	-	-	-	$1,036,354
Secondary Wholesale and Processing:								
Edible	$10,562,304	22.8	$2,406,866	54.90	$1,321,378	$12,969,170	8.1	-
Industrial	$134,424	22.8	$30,632	54.90	$16,817	$165,055	0.1	-
Retail Trade from Food Service	$6,596,342	177.8	$11,729,869	73.40	$8,604,215	$18,326,211	52.6	-
Retail Trade from Stores	$6,372,828	31.9	$2,033,488	80.50	$1,636,325	$8,406,316	10.0	-
TOTAL U.S. VALUE ADDED ACTIVITY:					$16,363,905		100.0	
CONSUMERS EXPENDITURES (& WHOLESALE PURCHASES OF INDUSTRIAL PRODUCTS) FOR FISHERY PRODUCTS:						$26,897,582		

(1) Includes industrial products, landings by U.S.-flag vessels at U.S. and foreign ports, and joint ventures.

Note.— The table reports the contribution of commercial marine fishing to the national economy as measured by **margin**, **value added**, and **sales**. These measures are consistent with the Bureau of the Census definitions.

Margin or mark-up is the difference between the price paid for the product by the consumer or wholesale purchaser and the dockside or wholesale value for an equivalent weight of the product. (It is assumed that fishermen catch their fish without paying a purchase price and therefore the entire dockside or exvessel price is considered margin.)

Value added is a measure of the factors added to the total worth of a product at each stage of the production process. It is defined as the gross receipts of firms minus the cost of purchased goods and services needed to fabricate the product. Value added is thereby a measure of the value of production which eliminates double counting inherent in sales figures of firms active in the marketing channels through which goods are transformed and move to the final consumer. Gross National Product (GNP) is equal to the sum of the value added of all economic entities in the economy. Value added within a sector (e.g. commercial marine fishing) represents that sector's contribution to GNP.

Value added includes wages, salaries, interest, depreciation, rent, taxes and profit. Value added is part of the margin, but margin includes various purchased goods (e.g. containers and non-seafood ingredients) and services (e.g. transportation, insurance, repairs) not included in value added.

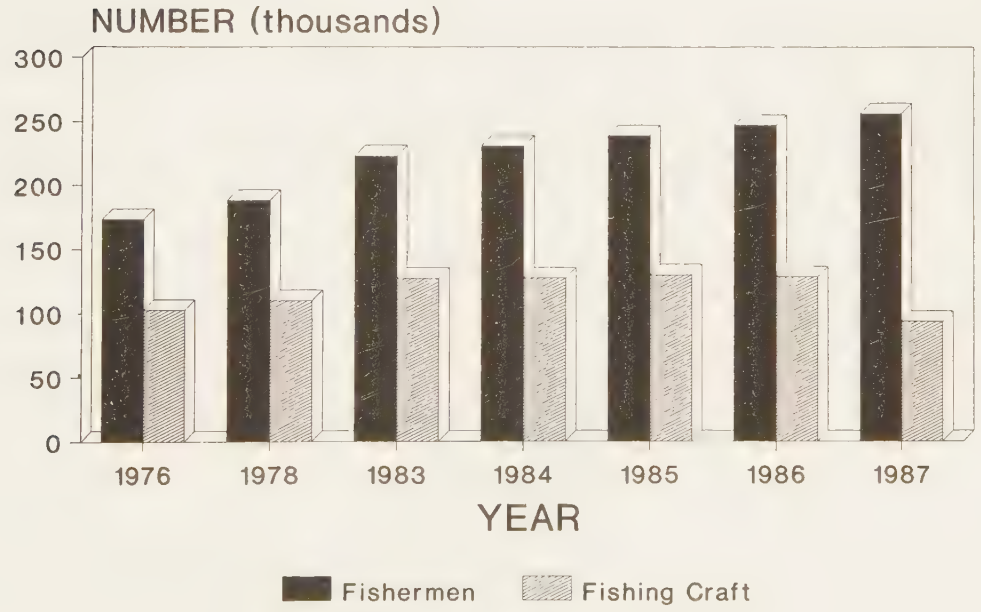
Annual sales is the value of seafood sales at the various maket levels. **Consumer expenditures** are the final retail value of seafood products sold through stores and food service outlets.

FISHERY EMPLOYMENT, CRAFT, AND ESTABLISHMENTS, VARIOUS YEARS, 1970-87(1)

Item	1970	1972	1974	1976	1978(1)	1987(1)
	Number					
Persons employed:						
Fishermen	140,538	139,119	161,361	173,610	188,300	256,000
Processing and wholesaling (2)	86,813	91,268	92,118	93,609	99,446	103,072
Total	227,351	230,387	253,479	267,219	287,746	359,072
Craft used:						
Vessels (3)	13,591	14,507	15,891	16,675	18,100	23,400
Motor boats	71,570	69,795	83,436	84,445	90,200	68,400
Other boats	2,000	1,570	1,907	1,501	1,600	1,600
Total	87,161	85,872	101,234	102,621	109,900	93,400
Processors and wholesalers:						
New England States	537	500	483	503	492	893
Mid-Atlantic States	832	793	745	768	763	603
South Atlantic States	432	445	433	522	506	637
Gulf Coast States	817	796	742	726	840	1,080
Pacific States	402	223	356	362	437	372
Alaska	108	322	239	182	178	442
Inland States (4)	564	537	487	511	266	87
Other (5)	43	47	49	43	42	65
Total	3,735	3,663	3,534	3,617	3,524	4,179

(1) Fishermen and craft estimated. Chesapeake Region not available for craft used in 1987. (2) Average for season. (3) Craft 5 net tons and over as documented by U.S. Coast Guard. (4) Data estimated for some Inland States. (5) A partial survey was conducted for other areas or States.

NUMBER OF FISHERMEN AND FISHING CRAFT 1976 - 1987



PLANTS PRODUCING CANNED FISHERY PRODUCTS, INDUSTRIAL FISHERY PRODUCTS, AND FISH FILLETS AND STEAKS, 1988

Area and State	Canned fishery products	Industrial fishery products	Fish fillets and steaks	Total plants exclusive of duplication
	Number			
New England:				
Maine	11	4	30	44
Massachusetts	-	-	68	68
New Hampshire	-	-	3	3
Rhode Island	-	-	17	17
Connecticut	-	-	2	2
Total	11	4	120	134
Mid-Atlantic:				
New York	4	1	19	24
New Jersey	11	-	2	13
Pennsylvania	2	-	-	2
Delaware	2	-	-	2
Maryland	1	1	1	1
Virginia	2	5	5	12
Total	22	7	27	54
South Atlantic and Gulf:				
North Carolina	2	4	20	26
South Carolina	1	-	9	10
Georgia	-	2	3	5
Florida	1	2	51	54
Alabama	-	1	2	3
Mississippi	3	2	1	6
Louisiana	7	17	19	43
Total	14	28	105	147
Pacific:				
Alaska	51	8	34	85
Washington	14	2	25	40
Oregon	3	-	15	18
California	6	6	27	37
Total	74	16	101	180
Hawaii	-	-	3	3
Inland States	1	1	17	19
American Samoa	2	2	-	2
Puerto Rico	5	4	-	5
Grand total	129	62	373	544

PROCESSORS AND WHOLESALERS: PLANTS AND EMPLOYMENT, 1987

STATE AND AREA	PROCESSING			WHOLESALE			TOTAL		
	PLANTS	EMPLOYMENT SEASON	AVERAGE YEAR	PLANTS	EMPLOYMENT SEASON	AVERAGE YEAR	PLANTS	EMPLOYMENT SEASON	AVERAGE YEAR
	NUMBER								
NEW ENGLAND:									
MAINE	117	2,488	2,291	260	709	662	377	3,197	2,953
NEW HAMPSHIRE	13	474	413	7	46	45	20	520	458
MASSACHUSETTS	108	3,707	3,680	219	1,357	1,327	327	5,064	5,007
RHODE ISLAND	33	556	534	81	356	332	114	912	866
CONNECTICUT	5	49	45	50	215	214	55	264	259
TOTAL	276	7,274	6,963	617	2,683	2,580	893	9,957	9,543
MID-ATLANTIC:									
NEW YORK	36	481	479	170	1,297	1,285	206	1,778	1,764
NEW JERSEY	26	1,078	1,002	57	346	342	83	1,424	1,344
PENNSYLVANIA	13	1,195	1,138	13	210	210	26	1,405	1,348
DELAWARE	3	432	432	7	25	25	10	457	457
DISTRICT OF COLUMBIA	-	-	-	5	81	81	5	81	81
MARYLAND	66	2,079	1,911	65	548	511	131	2,627	2,422
VIRGINIA	89	2,951	2,818	53	528	504	142	3,479	3,322
TOTAL	233	8,216	7,780	370	3,035	2,958	603	11,251	10,738
SOUTH ATLANTIC:									
NORTH CAROLINA	101	2,038	1,879	201	736	621	302	2,774	2,500
SOUTH CAROLINA	22	308	299	81	488	383	103	796	682
GEORGIA	12	1,394	1,383	57	206	190	69	1,600	1,573
FLORIDA, EAST COAST	38	1,375	1,369	125	753	751	163	2,128	2,120
TOTAL	173	5,115	4,930	464	2,183	1,945	637	7,298	6,875
GULF:									
FLORIDA, WEST COAST	148	3,584	2,008	195	871	868	343	4,455	2,876
ALABAMA	68	2,150	1,818	24	145	138	92	2,295	1,956
MISSISSIPPI	44	5,047	5,034	31	195	190	75	5,242	5,224
LOUISIANA	181	4,626	3,720	226	969	853	407	5,595	4,573
TEXAS	35	1,634	1,389	128	792	753	163	2,426	2,142
TOTAL	476	17,041	13,969	604	2,972	2,802	1,080	20,013	16,771

PROCESSORS AND WHOLESALERS: PLANTS AND EMPLOYMENT, 1987 - Continued

STATE AND AREA	PROCESSING			WHOLESALE			TOTAL		
	PLANTS	EMPLOYMENT SEASON	AVERAGE YEAR	PLANTS	EMPLOYMENT SEASON	AVERAGE YEAR	PLANTS	EMPLOYMENT SEASON	AVERAGE YEAR
	NUMBER								
PACIFIC:									
CALIFORNIA.....	53	3,720	3,668	51	1,474	1,482	104	5,194	5,150
OREGON.....	32	1,430	1,412	28	270	255	60	1,700	1,667
WASHINGTON.....	122	3,344	3,237	86	671	655	208	4,015	3,892
TOTAL.....	207	8,494	8,317	165	2,415	2,392	372	10,909	10,709
ALASKA (1).....	442	31,244	23,000	(2)	(2)	(2)	442	31,244	23,000
INLAND AREAS (1) -- (ARKANSAS, COLORADO, ILLINOIS, INDIANA, IOWA, KANSAS, MICHIGAN, MINNESOTA, MISSOURI, NEVADA, OHIO, OKLAHOMA, SOUTH DAKOTA, AND WISCONSIN)									
TOTAL.....	48	647	552	39	222	215	87	869	767
OTHER AREAS OR STATES: (3)									
GUAM, HAWAII, AND NORTHERN MARIANAS.....	16	199	199	42	158	152	58	357	351
AMERICAN SAMOA, AND PUERTO RICO.....	7	11,174	11,174	(2)	(2)	(2)	7	11,174	11,174
TOTAL.....	23	11,373	11,373	42	158	152	65	11,531	11,525
GRAND TOTAL...	1,878	89,404	76,884	2,301	13,668	13,044	4,179	103,072	89,928

(1) DATA FOR ALASKA AND SOME INLAND STATES HAVE BEEN ESTIMATED. (2) DATA NOT AVAILABLE. (3) A PARTIAL SURVEY WAS CONDUCTED FOR OTHER AREAS OR STATES.

FISHERY PRODUCTS AND ESTABLISHMENT INSPECTED IN CALENDAR YEAR, 1988

Region	Edible fishery products						
	Establishments (1)		Amount inspected				
	SIFE (2)	PUFI (3)	Grade A (4)	PUFI (4)	No mark (5)	Lot (6)	Total
	----Number----		----------Thousand pounds----------				
Northeast.....	2	33	58,195	175,148	26,095	50,195	309,633
Southeast.....	0	62	16,678	17,705	15,050	15,676	65,109
West.....	5	31	31,354	5,089	16,583	67,718	120,744
Total, 1988.....	7	126	106,227	197,942	57,728	133,589	495,486
Total, 1987.....	9	124	113,041	198,940	33,896	87,155	433,032

(1) These establishments are inspected under contract and certified as meeting U.S. Department of Commerce (USDC) regulations for construction and maintenance of facilities and equipment, processing techniques, and employment practices.

(2) Fish processing establishments approved for sanitation under the Sanitary Inspected Fish Establishment Service (SIFE). Products are not processed under inspection.

(3) Sanitarily inspected fish establishments processing fishery products under USDC inspection.

(4) Products processed under USDC inspection in inspected establishments and labeled with USDC inspection mark as "Packed Under Federal Inspection" (PUFI) or "U.S. Grade A."

(5) Products processed under inspection in inspected establishments but bearing no USDC inspection mark.

(6) Lot inspected products checked for quality and condition at the time of examination and located in processing plants, warehouses, cold storage facilities, or terminal markets anywhere in the United States.

Note:--Table may not add due to rounding.

Source:--NMFS, Office of Trade and Industry Services, F/TS4.

THE MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT

The Magnuson Fishery Conservation and Management Act, Public Law 94-265 as amended, provides for the conservation and management of all fishery resources within the U.S. Exclusive Economic Zone (EEZ) except highly migratory species of tuna. It also provides for fishery management authority over continental shelf resources and anadromous species beyond the EEZ, except when they are found within a foreign nation's territorial sea or fishery conservation zone (or equivalent), to the extent that such sea or zone is recognized by the United States.

The EEZ extends from the seaward boundary of each of the coastal States (generally 3 nautical miles from shore for all but two States) to 200 nautical miles from shore. The seaward boundaries of Texas, Puerto Rico, and the Gulf coast of Florida are 3 marine leagues (9 nautical miles).

GOVERNING INTERNATIONAL FISHERY AGREEMENTS

Under the Magnuson Act, the U.S. Department of State, with cooperation from the National Oceanic and Atmospheric Administration (NOAA) of the U.S. Department of Commerce, negotiates Governing International Fishery Agreements (GIFAs) with foreign countries wishing to fish within the EEZ. After a GIFA is signed, it is transmitted by the President to the Congress for review.

FOREIGN FISHING PERMITS

Vessels of foreign nations which have GIFAs with the United States may fish in the EEZ for species managed under the Magnuson Act after receiving an allocation of that species and a valid fishing permit. After a GIFA is in force, a foreign nation must submit a permit application to the U.S. Department of State for each vessel to fish in the EEZ. Permit applications must also be made for foreign vessels to receive U.S. harvested fish in the EEZ, and to conduct any other operation in support of the catching, taking, or harvesting of fish in the EEZ. The U.S. Department of State provides copies of the applications to the Congress, the U.S. Coast Guard, the appropriate Regional Fishery Management Councils, and to the Assistant Administrator for Fisheries of the National Marine Fisheries Service (NMFS) with its recommendations. The NMFS also receives recommendations from the Regional Fishery Management Councils and the U.S. Coast Guard, as well as the general public.

The Assistant Administrator for Fisheries reviews recommendations bearing on approval of each application and, after consulting with the U.S. Department of State and the U.S. Coast Guard, may approve an application in whole or in part. Any conditions and restrictions on the approval of an application are sent to the foreign nation through the U.S. Department of State, and must be accepted by the nation before a permit is issued.

FEES

Foreign nations engaged in fisheries subject to U.S. jurisdiction are charged permit fees, poundage fees, a foreign fee surcharge, and an observer fee. An incremental fee may also be charged, which is a percentage of the poundage fee from any country found not to be cooperating in the conservation and development of U.S. fishery resources.

The permit fees in 1988 recovered costs of issuing permits, based upon a standard administrative charge of $354 for each foreign permit application. Poundage fees are charged for the fish harvested by foreign vessels. Poundage fees vary in relation to the exvessel values of the species harvested by a nation's vessels. Poundage fees are not currently charged for U.S. harvested fish received by foreign vessels. Collections from 1988 poundage fees were expected to continue to decrease as foreign fishing falls to very low levels.

The surcharge is to capitalize a fund to compensate U.S. fishermen operating in the EEZ whose vessels or gear are lost or damaged because of conflicts with foreign vessels. The surcharge on poundage and permit fees was waived in 1988 because the fund was fully capitalized.

The observer fee covers U.S. costs including salary, per diem, transportation, and overhead for U.S. observers on board foreign vessels. The fee is computed on the basis of actual observer trips.

No incremental fees were paid in 1988.

FOREIGN ALLOCATIONS

The total allowable level of foreign fishing (TALFF), if any, for any fishery subject to the exclusive fishery management authority of the United States is that portion of the optimum yield (OY) of such fishery that will not be harvested by vessels of the United States.

Each assessment of OY and each assessment of the anticipated U.S. harvest is reviewed during each fishing season. Adjustments to TALFFs are based on updated information relating to status of stocks, estimated and actual performance of domestic and foreign fleets, and other relevant factors.

FMPs and PMPs

Under the Magnuson Act, eight Regional Fishery Management Councils are charged with preparing Fishery Management Plans (FMPs) for the fisheries needing management within their areas of authority. After the Councils develop FMPs which cover domestic and foreign fishing efforts, the FMPs are submitted to the Secretary of Commerce for approval and implementation. The Department, through NMFS agents and the U.S. Coast Guard, is responsible for enforcing the law and regulations.

The Secretary of Commerce is also empowered to prepare plans. Where no FMP exists, Preliminary Fishery Management Plans (PMPs), which only cover foreign fishing efforts, are prepared by the Secretary for each fishery for which a foreign nation requests a permit. The Secretary is also empowered to produce an FMP for any fishery that a Council has not duly produced. In this latter case, the Secretary's plan covers domestic and foreign fishing.

As of December 31, 1988, six Preliminary Fishery Management Plans (PMPs) were in effect, many of which have been amended since first being implemented.

Atlantic Billfishes and Sharks
Foreign Trawl Fisheries of the Northwest Atlantic
Hake Fisheries of the Northwestern Atlantic
Pacific Billfishes and Oceanic Sharks
Bering Sea Herring
Bering Sea Snails

FISHERY MANAGEMENT PLANS (FMPs)

Under section 304 of the Magnuson Act, all Council prepared FMPs must be reviewed by the Secretary of Commerce. After FMPs have been approved under section 304 of the Magnuson Act, they are implemented by federal regulations, under section 305 of the Act. During 1988, three new FMPs were adopted by Councils, submitted for Secretarial review and approved. As of December 31, 1988, there are 30 fishery management plans in place. The FMPs are listed below, and those marked with an asterisk (*) were approved and implemented during 1988. After implementation, many FMPs are amended by the Council and submitted for approval under the same Secretarial review process as new FMPs. Many of the Plans listed have been amended since initial implementation. Those marked with a double asterisk (**) were amended in 1988.

American Lobster
Northeast Multispecies
Atlantic Billfishes (*)
Atlantic Mackerel, Squid, and Butterfish
Atlantic Salmon (*)
Atlantic Sea Scallops (**)
Atlantic Surf Clams and Ocean Quahogs fisheries
Summer Flounder (*)
Swordfish
Gulf and South Atlantic Spiny Lobster (**)
Caribbean Shallow Water Reef Fish
Gulf and South Atlantic Corals
Gulf of Mexico Reef Fish
Gulf of Mexico Shrimp (**)
Gulf of Mexico Stone Crab
Coastal Migratory Pelagics
Caribbean Spiny Lobster
Snapper/Grouper
Northern Anchovy
Alaska King Crab
Commercial and Recreational Salmon
High Seas Salmon (**)
Pacific Groundfish
Gulf of Alaska Groundfish (**)
Bering Sea and Aleutian Islands Groundfish (**)
Western Pacific Crustaceans
Western Pacific Precious Corals (**)
Western Pacific Bottomfish and Seamount Groundfish (**)
Gulf of Mexico Red Drum (**)
Western Pacific Pelagics

During 1988, 360 regulatory actions were processed via the Federal Register to implement FMP fishery management actions and rules for foreign fishing. This number includes hearing, meeting, and correction notices.

REGIONAL FISHERY MANAGEMENT COUNCILS

Council	States	Telephone Number	Executive Director
NEW ENGLAND	(Maine, New Hampshire, Massachusetts, Rhode Island, and Connecticut)	617-231-0422	Douglas G. Marshall Suntaug Office Park 5 Broadway (Rte.1) Saugus, MA 01906
MID-ATLANTIC	(New York, New Jersey, Delaware, Pennsylvania, Maryland, and Virginia)	302-674-2331	John C. Bryson Federal Bldg., Rm. 2115 300 So. New St. Dover, DE 19901
SOUTH ATLANTIC	(North Carolina, South Carolina, Georgia, and Florida)	803-571-4366	Robert K. Mahood Southpark Bldg., Suite 306 1 Southpark Circle Charleston, SC 29407
GULF OF MEXICO	(Texas, Louisiana, Mississippi, Alabama, and Florida)	813-228-2815	Wayne E. Swingle Lincoln Center, Suite 881 5401 W. Kennedy Blvd. Tampa, FL 33609
CARIBBEAN	(Virgin Islands and the Commonwealth of Puerto Rico)	809-753-4926	Omar Munoz-Roure Bancho de Ponce Bldg. Suite 1108 Hato Rey, PR 00918
PACIFIC	(California, Washington, Oregon, and Idaho)	503-221-6352	Lawrence D. Six Metro Center, Suite 420 2000 S.W. First Avenue Portland, OR 97201
NORTH PACIFIC	(Alaska, Washington, and Oregon)	907-271-2809	Clarence G. Pautzke 605 W. 4th Ave., Rm. 306 P.O. Box 103136 Anchorage, AK 99510
WESTERN PACIFIC	(Hawaii, American Samoa, Guam, and the Northern Marianas Islands)	808-523-1368	Kitty M. Simonds 1164 Bishop St., Rm. 1405 Honolulu, HI 96813

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN ALLOCATION: BY COUNTRY AND REGION, 1988

Item	North Atlantic (1)	Washington Oregon, and California (2)	Gulf of Alaska (3)	Eastern Bering Sea and Aleutian Islands (4)	Total Alaska	Grand Total (1)
	Metric tons, round weight					
Optimum yield (OY).....	503,258	254,000	260,936	2,003,000	2,263,936	3,021,194
DAH.....	341,100	189,000	260,936	2,000,000	2,260,936	2,791,036
DAP.....	255,900	19,000	233,186	698,366	931,552	1,206,452
JVP.....	71,200	170,000	20,150	1,301,634	1,321,784	1,562,984
Reserve.....	5,000	4,400	0	0	0	9,400
TALFF.....	157,158	60,600	7,600	3,000	10,600	228,358
COUNTRY ALLOCATIONS						
EEC, Netherlands.....	12,192	0	0	0	0	12,192
German Democratic Republic.....	22,304	0	0	0	0	22,304
People's Republic of China.....	0	3,700	0	0	0	3,700
Poland.....	17,043	36,500	0	0	0	53,543
Republic of Korea.....	0	5,300	0	0	0	5,300
Total.....	51,539	45,500	0	0	0	97,039

(1) Optimum Yield includes initial optimum yield for some species-see North Atlantic table.
(2) Optimum Yield includes Pacific whiting, shortbelly rockfish, and jack mackerel; allocations include only Pacific whiting - see Washington, Oregon, and California table.
(3) Includes 7,600 mt TALFF for Pacific cod.
(4) Includes 3,000 mt TALFF for snails.

Notes:--DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing; TALFF=Total Allowable Level of Foreign Fishing.

Pacific Seamount Region closed to Foreign and Domestic Fishing.

Source:--NMFS, Office of Trade and Industry Services, F/TS2.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, AND FOREIGN FISHING ALLOCATIONS: NORTH ATLANTIC, BY SPECIES AND COUNTRY, 1988 (1)

Item	Red hake	Silver hake	Sharks, except Dogfish	Loligo Squid	Illex Squid	Atlantic mackerel (2)	Butter-fish	River herring	Other finfish	Total (2)
	Metric tons, round weight									
Max Optimum yield (OY).....	22,000	43,000	6,150	44,000	30,000	N/A	16,000	8,000	247,000	-
ABC.....	-	-	-	37,000	22,500	323,000	16,000	-	-	-
Initial Optimum yield.....	22,000	43,000	6,150	14,036	17,000	136,000	10,072	8,000	247,000	503,258
DAH.....	11,500	29,600	5,000	14,000	17,000	46,000	10,000	7,800	200,200	341,100
DAP.....	5,500	7,600	5,000	14,000	14,000	12,000	10,000	7,800	180,000	255,900
JVP.....	6,000	22,000	-	0	3,000	20,000	0	-	20,200	71,200
Reserve.....	5,000	-	-	-	-	-	-	-	-	5,000
TALFF.....	5,500	13,400	1,150	36	0	90,000	72	200	46,800	157,158
Country Allocations										
EEC, Netherlands.	5	5	0	2	0	12,000	5	25	150	12,192
German Democratic Republic.	5	5	0	4	0	22,000	5	35	250	22,304
Poland.....	5	10	0	3	0	16,700	5	60	260	17,043
Total.....	15	20	0	9	0	50,700	15	120	660	51,539

(1) OY=Optimum Yield; ABC=Allowable Biological Catch; DAH=Domestic Annual Harvest; and TALFF=Total Allowable Level of Foreign Fishing; Initial Optimum Yield = DAH & TALFF or max optimum yield.
(2) DAH includes 14,000 metric tons for recreational catch.
NA:--Not applicable.

Source:--NMFS, Office of Trade and Industry Services, F/TS2.

OPTIMUM YIELD, DOMESTIC ANNUAL HARVEST, RESERVE, TALFF, FOREIGN FISHING ALLOCATION AND BYCATCH ALLOWANCES WASHINGTON, OREGON, AND CALIFORNIA, BY SPECIES AND COUNTRY, 1988 (1)

Item	Species Available for Directed Foreign Fishing				Bycatch Allowances (2)					
	Pacific whiting	Shortbelly rockfish	Jack mackerel	Total	Pacific ocean perch	Other rockfish (3)	Flatfish	Sablefish	Jack mackerel	Other species
	Metric tons, round weight									
Optimum yield (OY)	232,000	10,000	12,000	254,000	-	-	-	-	-	-
DAH	183,000	6,000	0	189,000	-	-	-	-	-	-
DAP	18,000	1,000	0	19,000	-	-	-	-	-	-
JVP	165,000	5,000	0	170,000	-	-	-	-	-	-
Reserve	0	2,000	2,400	4,400	-	-	-	-	-	-
TALFF	49,000	2,000	9,600	60,600	-	-	-	-	-	-
% BYCATCH LIMITS (2)	-	-	-	-	0.062	0.738	0.100	0.173	3.000	0.500
Country Allocations										
Poland	36,500	0	0	36,500	23	269	37	63	1,095	183
Rep. of Korea	5,300	0	0	5,300	3	39	5	9	159	27
People'S Republic of China	3,700	0	0	3,700	2	27	4	6	111	19
Total	45,500	0	0	45,500	-	-	-	-	-	-

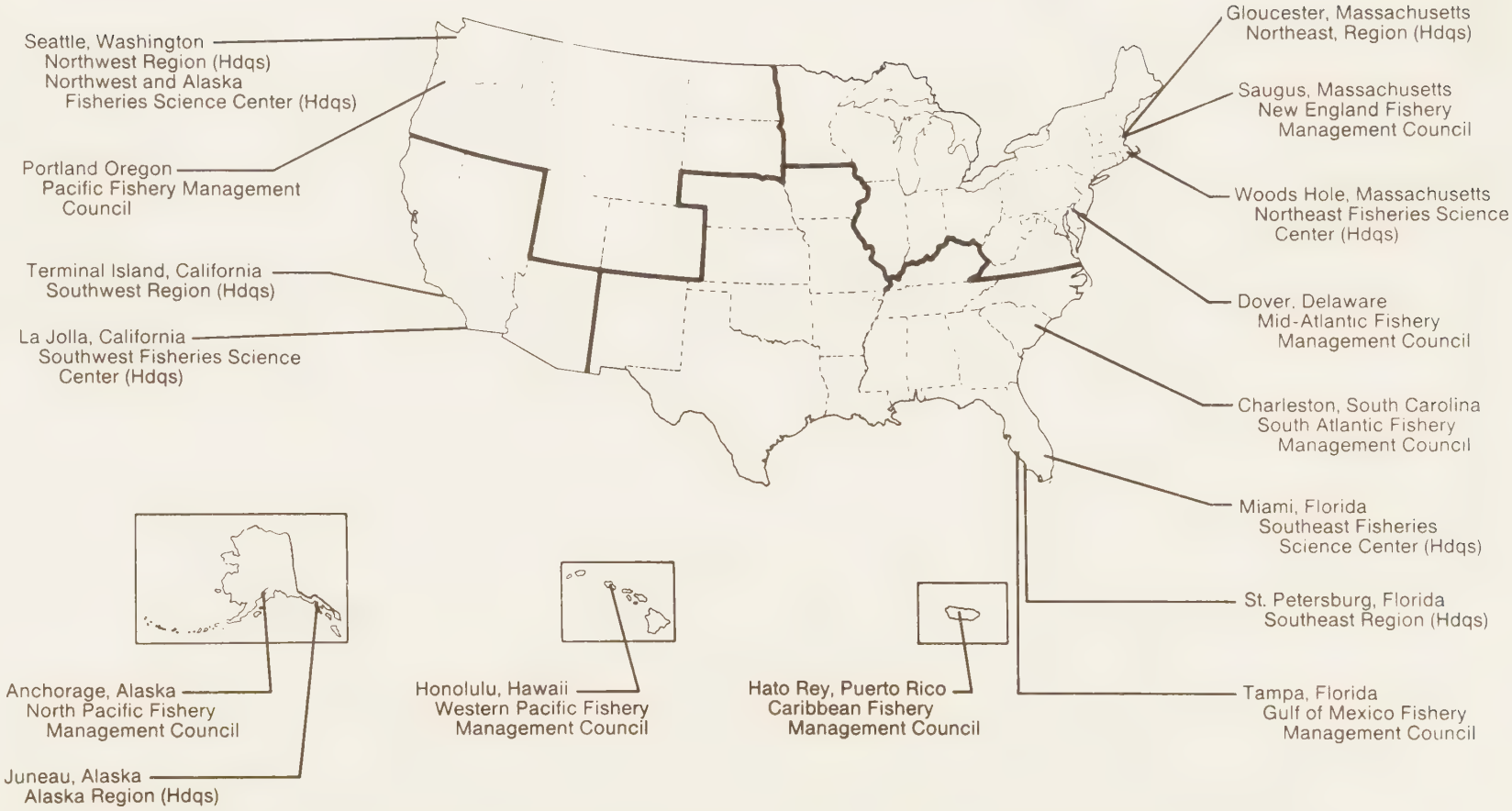
(1) TALFF=Total Allowable Level of Foreign Fishing; DAH=Domestic Annual Harvest; DAP=Domestic Annual Processing; JVP=Joint Venture Processing.

(2) Bycatch allowances are the maximum amounts of bycatch that can be taken by foreign vessels and are based on the bycatch limits which are percentages applied to each nation's Pacific whiting allocation.

(3) Includes shortbelly rockfish and widow rockfish.

Source:--NMFS, Office of Trade and Industry Services, F/TS2.

NMFS Regional Offices
NMFS Fisheries Science Centers
Regional Fishery Management Councils
HDQS Locations



UNITED STATES DEPARTMENT OF COMMERCE

14th and E Streets, NW
Washington, D.C. 20230

Mail routing code		Telephone number
--	Secretary of Commerce Robert A. Mosbacher	202-377-2112
A	National Oceanic and Atmospheric Administration William E. Evans	202-377-3436

NATIONAL MARINE FISHERIES SERVICE

1335 East-West Highway
(Silver Spring Metro Center #1)
Silver Spring, MD 20910

F	Assistant Administrator for Fisheries James W. Brennan	301-427-2239
Fx1	Deputy Assistant Administrator for Fisheries	301-427-2239
Fx2	Executive Director	301-427-2239
Fx3	Senior Scientist for Fisheries	301-427-2239
F/MB	Management and Budget Office	301-427-2245
F/SC	National Seafood Marketing Council (*)	202-673-5237
F/EN	Office of Enforcement	301-427-2300
F/CM	Office of Fisheries Conservation and Management	301-427-2334
F/CM1	Operations Support and Analysis Division	301-427-2353
F/CM2	Plans and Regulations Division	301-427-2343
F/CM3	Recreational and Interjurisdictional Fisheries Division	301-427-2325
F/RE	Office of Research and Environmental Information	301-427-2367
F/RE1	Fisheries Statistics Division	301-427-2328
F/RE2	Data Management Division	301-427-2372
F/RE3	Prediction, Analysis and Monitoring Division	301-427-2363
F/PR	Office of Protected Species	301-427-2332
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F/PR3	Habitat Policy and Conservation Division	301-427-2347
F/PR4	Conservation Science Division	301-427-2319
F/TS	Office of Trade and Industry Services	301-427-2351
F/TS1	Financial Services Division	301-427-2390
F/TS2	Trade Services Division	301-427-2379

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(*) Office is located at 1825 Connecticut Ave., NW (Universal Bldg., South) Room 618, Washington, DC 20235.

NATIONAL MARINE FISHERIES SERVICE

SILVER SPRING, MD. 20910

Mail routing code		Telephone number
F/TS3	Utilization Research and Services Division	301-427-2358
F/TS4	Inspection Services Division	301-427-2355
F/IA	Office of International Affairs	301-427-2272
F/IA1	Organizations and Agreements Division	301-427-2276
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LA3-F	Constituent Affairs Staff - Fisheries	301-427-2259
LA5-F	Office of Congressional Affairs - Fisheries	301-427-2263
PAF	Office of Public Affairs - Fisheries	301-427-2370
GCF	Office of General Counsel - Fisheries	301-427-2231

REGIONAL FACILITIES

Location	Telephone number	
Gloucester, MA	508-281-9300	Northeast Region, One Blackburn Drive Gloucester, MA 01930
Woods Hole, MA	508-548-5123	Northeast Fisheries Science Center Woods Hole, MA 02543
Woods Hole, MA	508-548-5123	Woods Hole Laboratory Woods Hole, MA 02543
Narragansett, RI	401-789-9326	Narragansett Laboratory, Route 7A, P.O. Box 522A Narragansett, RI 02882
Milford, CT	203-878-2459	Milford Laboratory Milford, CT 06460
Highlands, NJ	201-872-0200	Sandy Hook Laboratory, P.O. Box 428 Highlands, NJ 07732
Oxford, MD	301-226-5193	Oxford Laboratory Oxford, MD 21654
Gloucester, MA	508-281-3600 Ext. 237	Gloucester Laboratory, Emerson Ave. Gloucester, MA 01930
Washington, DC	202-357-2550	National Systematics Laboratory 10th and Constitution Ave., N.W. Washington, DC 20560

(Continued)

NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES - CONTINUED

Location	Telephone number	
St. Petersburg, FL	813-893-3141	Southeast Region, 9450 Koger Blvd. St. Petersburg, FL 33702
Miami, FL	305-361-4284	Southeast Fisheries Science Center, 75 Virginia Beach Dr. Miami, FL 33149
Miami, FL	305-361-4225	Miami Laboratory, 75 Virginia Beach Dr. Miami, FL 33149
Pascagoula, MS	601-762-4591	Mississippi Laboratories, 3209 Frederick St. P.O. Drawer 1207 Pascagula, MS 39567
Panama City, FL	904-234-6541	Panama City Laboratory, 3500 Delwood Beach Rd. Panama City, FL 32407
Galveston, TX	409-766-3500	Galveston Laboratory, 4700 Avenue U Galveston, TX 77550
Charleston, SC	803-762-1200	Charleston Laboratory, 217 Fort Johnson Rd. P.O. Box 12607 Charleston, SC 29412
Beaufort, NC	919-728-3595	Beaufort Laboratory, Pivers Island Beaufort, NC 28516
Seattle, WA	206-526-6150	Northwest Region, 7600 Sand Point Way, N.E. BIN C15700, Bldg. 1 Seattle, WA 98115
Seattle, WA	206-442-1872	Northwest Fisheries Science Center 2725 Montlake Boulevard, East Seattle, WA 98112
Terminal Island, CA	213-514-6196	Southwest Region, 300 South Ferry St. Terminal Island, CA 90731
La Jolla, CA	619-546-7000	Southwest Fisheries Science Center 8604 La Jolla Shores Dr., P.O. Box 271 La Jolla, CA 92038
Honolulu, HI	808-943-1221	Honolulu Laboratory, 2570 Dole St., P.O. Box 3830 Honolulu, HI 96812
Tiburon, CA	415-435-3149	Tiburon Laboratory, 3150 Paradise Dr. Tiburon, CA 94920
Monterey, CA	408-646-3311	Pacific Fisheries Environmental Group P.O. Box 831 Monterey, CA 93942

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NATIONAL MARINE FISHERIES SERVICE

REGIONAL FACILITIES - Continued

Location	Telephone number	
Juneau, AK	907-586-7221	Alaska Region, Federal Bldg., Room 453 709 West Ninth St., P.O. Box 21668 Juneau, AK 99802
Seattle, WA	206-526-4000	Alaska Fisheries Science Center, 7600 Sand Point Way, N.E. BIN C15700, Bldg. 4 Seattle, WA 98115
Kodiak, AK	907-487-4961	Kodiak Investigations, P.O. Box 1638 Kodiak, AK 99615
Auke Bay, AK	907-789-6000	Auke Bay Laboratory, P.O. Box 210155 Auke Bay, AK 99821

REFERRAL DIRECTORY - SILVER SPRING, MARYLAND OFFICES

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- Foreign fishing
- Joint ventures

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- Compensation for loss of gear
- Construction, vessels (Tax Deferral Program)
- Insurance - vessel seizure by foreign governments
- Loans and loan guarantees

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- Fishery management plans
- Fisheries regulations
- State grants

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- Exports/Imports licenses
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- Allocation (foreign fishing catches)
- Foreign fisheries (general)

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- Lacey Act (general information)
- Marine Mammal Protection Act (general)
- Permits and regulations

RESOURCES INVESTIGATIONS -- 301-427-2367

- Acid rain and pollution
- Aquaculture information
- Diseases of fish
- Ecology and fish recruitment
- Fishing methods
- Resource abundance

STATISTICAL DATA SERVICES -- 301-427-2328

- Commercial fisheries - landings and value
- Imports and exports
- Joint ventures
- Market news reports (general)
- Operating units (fishermen and vessels)
- Processed fishery products
- Recreational fisheries

UTILIZATION RESEARCH -- 301-427-2358

- Botulism and ciguatera poisoning
- Nutrition and quality of fishery products
- Safety and product standards
- Seafood inspection and identity

NATIONAL MARINE FISHERIES SERVICE

NATIONAL FISHERIES STATISTICS OFFICES

City	Telephone number	Name and address
		NORTHEAST REGION
NEW ENGLAND		
Portland	207-780-3322	Robert C. Morrill or Bill Trusewich, U.S. Custom House 312 Fore St., Room 17, P.O. Box 425, DTS, Portland, ME 04112
Rockland	207-594-5969	Peter S. Marckoon, Federal Bldg., 21 Limerock St., Room 207, P.O. Box 708, Rockland, ME 04841
Boston	617-223-8015	Paul Sheahan, 408 Atlantic Ave., Room 141 Boston, MA 02210
Gloucester	508-281-9304	Vito P. Giacalone, Room 107, 1 Blackburn Dr. Gloucester, MA 01930
New Bedford	508-999-2452	Dennis E. Main, U.S. Custom House, 2nd and Williams Sts., New Bedford, MA 02740
New Bedford	508-994-9200	Paul O. Swain, Address same as above
Provincetown	508-487-0868	William D. Sprague, Post Office Bldg., Commercial St., P.O. Box 91, Provincetown, MA 02657
(1)Woods Hole	508-548-5123 Ext. 264	Ronnee L. Schultz, Northeast Fisheries Center, Water St., Woods Hole, MA 02543
Newport	401-847-3115	Lori Lathan, Post Office Bldg., Thames St., Newport, RI 02840
Pt. Judith	401-783-7797	Susan Murphy, 310 Great Island Rd., Rm. 203, P.O. Box 547, Pt. Judith, RI 02882
MIDDLE ATLANTIC		
Riverhead	516-727-0707	Scott Basil, 518-B E. Main St., P.O. Box 873, Riverhead, L.I., NY 11901
Patchhogue	516-475-6988	Fred C. Blossom, 22 W. Main St., P.O. Box 606, Patchoque, L.I., NY 11772
Toms River	201-349-3533	Eugene A. LoVerde, 26 Main St., P.O. Box 143, Toms River, NJ 08753
Cape May	609-884-2113	Patricia A. Yoos, 1382 Lafayette St., Cape May, NJ 08204
CHEAPEAKE		
Oxford	301-226-5420	William E. Brey, Oxford Laboratory, P.O. Box 338, Oxford, MD 21654
Greenbackville	804-824-4725	George E. Ward, Biological Lab., Franklin City, Greenbackville, VA 23356
Hampton	804-723-3369	Anthony Silvia, 55-57 West Queenway Mall, P.O. Box 436, Hampton, VA 23669
		SOUTHEAST REGION
SOUTH ATLANTIC		
Beaufort	919-728-4168	Kenneth C. Harris, Pivers Island, Beaufort Laboratory, Box 500, Beaufort, NC 28516
Manteo	919-473-5929	Glenwood P. Montgomery, Marine Resource Center, P.O. Box 967, Manteo, NC 27954
Charleston	803-762-1200	John C. DeVane, Jr., 217 Ft. Johnson Rd., P.O. Box 12607, James Island, SC 29412
Brunswick	912-265-7080	Daniel G. Foster, Federal Bldg., 801 Gloucester St., Room 104, Brunswick, GA 31520
New Smyrna Beach	904-427-6562	Claudia Dennis, 200 Canal St., Room 200 New Smyrna Beach, FL 32069
(1)Miami	305-361-4462	J. Ernest Snell, 75 Virginia Beach Dr., Miami, FL 33149
Tequesta	407-575-5407	Howard C. Schaefer, 19100 S.E. Federal Highway Tequesta, FL 33469

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NATIONAL MARINE FISHERIES SERVICE

NATIONAL FISHERIES STATISTICS OFFICES - Continued

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Key West	305-294-1921	Edward J. Little, Jr., Post Office & Custom House Bldg., P.O. Box 269, Key West, FL 33040
Fort Myers	813-334-4364	Tom Herbert, Federal Bldg., P.O. Box 217, Fort Myers, FL 33902
St. Petersburg	813-893-3151	Betty J. Guisinger, 9450 Koger Blvd., St. Petersburg, FL 33702
Apalachicola	904-653-9500	Richard Dumas, Post Office Bldg., P.O. Drawer 189, Apalachicola, FL 32320
Panama City	904-234-6541	Deborah Fable, 3500 Delwood Beach Rd., Panama City, FL 32401
Bayou La Batre	205-824-4149	Horace M. Flowers, D&H Furniture Bldg., Second Floor 93 S. Wintzell Ave., P.O. Box 591, Bayou La Batre, AL 36501
Pascagoula	601-762-4591	Hermes G. Hague, 3209 Frederic St., SEFC Pascagoula Lab., P.O. Box Drawer 1207, Pascagoula, MS 39567
Cameron	318-762-3887	Vacant, Sabine National Wildlife Refuge, Highway 27 South, 3000 Main Street, Hackberry, LA 70645
Golden Meadow	504-475-7072	Gary J. Rousse, 1614 So. Bayou Dr., Rm. 211, P.O. Box 623, Golden Meadow, LA 70357
Houma	504-872-3321	Kathleen M. Hebert, Post Office Bldg., 425 Lafayette St., Room 128, Houma, LA 70360
New Iberia	318-365-1558	Linda F. Picou, 327 S. Iberia St., Suite 8, New Iberia, LA 70560
New Orleans	504-589-6153	Leryes "Lee" Usie, World Trade Center, 2 Canal St., Suite 400-H, New Orleans, LA 70130
Aranas Pass	512-758-3787	Mary Magee, Landry Net Shop, Conn Brown Harbor, P.O. Box 1776, Aransas Pass., TX 78336
Brownsville	512-831-4050	Edie Lopez, Harbor Masters Bldg., Shrimp Basin, P.O. Box 467, Brownsville, TX 78520
Freeport	409-233-4551	Richard A. Allen, 307 East Park, P.O. Box 2533, Freeport, TX 77541
Galveston	409-766-3705	Margot Hightower, 4700 Avenue U, Bldg. 308, Galveston, TX 77551
Port Arthur	409-724-4303	Madeline Bailey, Federal Bldg., 2875 75th St., Room 113, Port Arthur, TX 77640
		SOUTHWEST REGION
(1)Terminal Island, CA or Honolulu, HI	213-514-6674	Patricia J. Donley, 300 S. Ferry St., P.O. Box 3266, Terminal Island, CA 90731
		NORTHWEST REGION
(1)Seattle	206-526-6128	John K. Bishop, 7600 Sand Point Way, N.E., Bldg., 1, BIN C15700, Seattle, WA 98115
		ALASKA REGION
(1)Juneau	907-586-7228	Janet E. Smoker, 709 W. Ninth St., Federal Bldg., P.O. Box 21668, Juneau, AK 99802

(1) Regional headquarters for statistics offices.

PUBLICATIONS AVAILABLE FROM NATIONAL MARINE FISHERIES SERVICE, NOAA

SCIENTIFIC PUBLICATIONS

Information on formal scientific publications by NMFS (such as NMFS journals and Technical Reports) may be obtained from the Scientific Publications Office (F/NWR1), 7600 Sand Point Way N.E., BIN C-15700, Seattle WA 98115. Telephone: 206-526-6107.

CURRENT FISHERY STATISTICS (CFS) SERIES

The reports listed below are in the Current Fishery Statistics (CFS) series. They are statistical bulletins on marine recreational fishing and commerical fishing, and on the manufacture and commerce of fishery products. For further information or to obtain a subscription to these publications, contact the office shown below:

NOAA, National Marine Fisheries Service
Fisheries Statistics Division (F/RE1)
1335 East-West Highway
Silver Spring, MD 20910
Telephone: 301-427-2328

Marine recreational fishing publications are released annually. If you wish a copy of the following publications, check the designated space () and return to the office shown above.

() Marine Recreational Fishery Statistics Survey, Pacific Coast, 1986 C.F.S. No. 8393

() Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1986 C.F.S. No. 8392

() Marine Recreational Fishery Statistics Survey, Pacific Coast, 1985 C.F.S. No. 8328

() Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1985 C.F.S. No. 8327

() Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1983-1984 C.F.S. No. 8326

() Marine Recreational Fishery Statistics Survey, Pacific Coast, 1983-1984 C.F.S. No. 8325

() Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coast, 1981-1982 C.F.S. No. 8324

() Marine Recreational Fishery Statistics Survey, Pacific Coast, 1981-1982 C.F.S. No. 8323

() Marine Recreational Fishery Statistics Survey, Atlantic and Gulf Coasts, 1979 (Revised)-1980 C.F.S. No. 8322

() Marine Recreational Fishery Statistics Survey, Pacific Coast, 1979-1980 C.F.S. No. 8321

The bulletins shown below cover freezings and holdings, the production of various processed products, and the U.S. foreign trade in fishery products. The annual data shown in the publications are later published in Fishery Statistics of the United States. To order Fishery Statistics of the United States from the Government Printing Office (GPO) or the National Technical Information Service (NTIS), see the two pages that follow.

The following are available annually:

() FF Frozen Fishery Products

() MF Processed Fishery Products:
(Includes (MF 1-5) Canned Fishery Products; Production of Fish Fillets and Steaks; Fish Sticks, Fish Portions, and Breaded Shrimp; and Industrial Fishery Products.)

() MF-6 Imports and Exports of Fishery Products

The following publication is only available quarterly; monthly data will be available in the annual Processed Fishery Products (MF-1):

() Fish Meal and Oil

LIBRARY INFORMATION

Library information is available from NOAA's library, 6009 Executive Blvd., Rockville, MD 20852. Telephone: 301-443-8334.

PUBLICATIONS AVAILABLE FROM U.S. GOVERNMENT PRINTING OFFICE

TECHNICAL REPORTS

Stock Number

003-009-00522-1 International Trade Administration Report, "1988 U.S. Industrial Outlook" - a one-year forecast on the U.S. fishing industry plus one and five-year forecasts on other U.S. industries. January 1988 . . .$24.00

STATISTICAL REPORTS

003-020-00157-2 Fisheries of the United States . . .$6.00 each

MISCELLANEOUS REPORTS

003-017-00531-3 Bering, Chukchi and Seas Strategic Assessment: Data Atlas 1988. . .Price not available.

003-009-00547-7 United States Industrial Outlook, 1989: Prospects for Over 350 Industries. . .$24.00

003-020-00156-4 Illustrated Key to Penaeoid shrimp of Commerce in the Americas . . .$2.00

003-017-00523-2 Gulf of Mexico Coastal and Ocean Zones Strategic Assessment: Data Atlas. . .$138.00

003-020-00119-0 Whales, Dolphins, Porpoises of the Western North Atlantic: A Guide to Their Identification. . .$7.00

003-018-00112-8 Surimi . . .$6.00

MARINE LIFE POSTERS

(printed on washable non-glare plasticized paper)

003-020-00055-0 Marine Fishes of the California Current and adjacent waters . . .$5.50

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PUBLICATIONS AVAILABLE FROM NATIONAL TECHNICAL INFORMATION SERVICE (NTIS),
U.S. DEPARTMENT OF COMMERCE

COMMERCIAL FISHERIES

Fisheries of the United States is a preliminary report with historical comparisons on the Nation's fishing, fish processing, and foreign trade in fishery products.

Year	Accession number	Year	Accession number
1966	COM-75-10662	1977	PB-282741
1967	COM-75-10663	1978	PB-297083
1968	COM-75-10664	1979	PB-80-201593
1969	COM-75-10665	1980	PB-81-241648
1970	COM-71-50081	1981	PB-82-215542
1971	COM-75-10666	1982	PB-83-216473
1972	COM-73-50644	1983	PB-84-195148
1973	COM-74-50546	1984	PB-86-144953
1974	COM-75-10862	1985	PB-87-143145
1975	PB-253966	1986	PB-88-164132
1976	PB-268662	1987	PB-88-215173

Fishery Statistics of the United States (Statistical Digest) is a final report on the Nation's commercial fisheries showing more detail than Fisheries of the United States.

Year	Accession number	Year	Accession number
1939	COM-75-11265	1959	COM-75-11062
1940	COM-75-11266	1960	COM-75-11063
1941	COM-75-11267	1961	COM-75-11064
1942	COM-75-11268	1962	COM-75-11065
1943	COM-75-11269	1963	COM-75-11066
1944	COM-75-11270	1964	COM-75-11067
1945	COM-75-11271	1965	COM-75-11068
1946	COM-75-11272	1966	PB-246429
1947	COM-75-11273	1967	PB-246430
1948	COM-75-11274	1968	COM-72-50249
1949	COM-75-11275	1969	COM-75-10887
1950	COM-75-11056	1970	COM-75-10643
1951	COM-75-11053	1971	COM-74-51227
1952	COM-75-11054	1972	COM-75-11430
1953	COM-75-11055	1973	PB-262058
1954	COM-75-11057	1974	PB-277796
1955	COM-75-11058	1975	PB-300625
1956	COM-75-11059	1976	PB-81-163438
1957	COM-75-11060	1977	PB-84-192038
1958	COM-75-11061		

STATE LANDINGS

Maine, 1946-76, PB-271296/1977-79, PB-81-128258.
Massachusetts, 1943-76, PB-275866/1977-79, PB-81-143182.
Rhode Island, 1954-77, PB-287627/1978-79, PB-81-157158.
New York, 1954-76, PB-275449/1977-79, PB-81-134546.

STATE LANDINGS - CONTINUED

New Jersey, 1952-76, PB-275696/1977-79, PB-81-159048.
Maryland, 1960-76, PB-300636/1977-79, PB-81-159003.
Virginia, 1960-76, PB-300637/1977-79, PB-82-151960.
North Carolina, 1955-76, PB-288928/1977-79, PB-82-151978.
South Carolina, 1957-76, PB-289405/1977-79, PB-81-163198.
Georgia, 1956-77, PB-289814/1977-78, PB-81-157166.
Florida, 1950-76, PB-292068.
Alabama, 1950.-77, PB-80-121262/1978, PB-82-168071.
Mississippi, 1951-77, PB-80-121270/1978, PB-82-169079.
Louisiana, 1957-77, PB-300583/1978, PB-82-168063.
Texas, 1949-77, PB-300603/1978-79, PB-82-169004.
Shrimp, 1956-76, PB-80-124696/1977-78, PB-82-156183.
Gulf Coast Shrimp Data, 1958-76, PB-80-126899/1977, PB-82-170390.

MARINE RECREATIONAL FISHING

1970 Salt-Water Angling Survey, PB-265416.

Determination of the Number of Commercial and Non-Commercial Recreational Boats in the United States, Their Use, and Selected Characteristics, COM-74-11186.

Participation in Marine Fishing:
Northeastern United States, 1973-74, COM-75-10655.
Southeastern United States, 1974, PB-273160.

Marine Recreational Fishery Statistics Survey:

Atlantic and Gulf Coasts:

1979-80	PB-84-199652
1979 (Revised)-1980	PB-89-102552
1981-1982	PB-89-102560
1983-1984	PB-89-102628
1985	PB-89-102669
1986	PB-89-102701

Pacific Coast:

1981-1982	PB-89-102925/AS
1983-1984	PB-89-102933/AS
1985	PB-89-102941/AS
1986	PB-89-102958/AS

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OTHER PUBLICATIONS

Processors and Wholesale Dealers of Fishery Products in U.S. (excludes Alaska) 1987 (shows firm name, address, and major products), PB-89-152326/AS

Processors and Wholesalers of Alaska Fishery Products, 1978, PB-299246.

Directory of Aquaculture in the Southeast, 1976, PB-2721512.

Aquaculture and Capture Fisheries: Impacts in U.S. Seafood Markets, PB-88-204185/GBA.

Revenues, Costs, and Returns from Vessel Operation in Major U.S. Fisheries, PB-265275.

Development of Value Added, Margin and Expenditures for Marine Fishery Products, PB-89-125108.

Seafood Plant Sanitation, PB-271161.

List of Fishery Cooperatives in U.S. 1980-81, PB-82-107830.

Economic Impacts of the U.S. Commercial Fishing Industry, COM-75-11354.

A Survey of Fish Purchases by Socio-Economic Characteristics - Annual Report, COM-71-00647.

National Marine Fisheries Service: Seafood Consumption, 1973-1974, (a magnetic tape) PB-294725.

National Marine Fisheries Service: Species/Mercury Data (a magnetic tape) PB-283265.

The Maryland Blue Crab and Oyster Processing Industries: The Effects of Government Regulations, PB-82-159054.

The National Fisheries Institute, a national trade association of seafood processors, brokers, importers, and buyers, in cooperation with an under contract to the National Marine Fisheries Service, has prepared a series of economic profiles of the U.S. seafood processing industry.

The U.S. Blue Crab Industry: An Economic Profile for Policy and Regulatory Analysts, PB-83-165704.

The Maine Sardine Industry: An Economic Profile for Policy and Regulatory Analysts, PB-83-165712.

The U.S. Menhaden Industry: An Economic Profile for Policy and Regulatory Analysts, PB-83-165720.

The U.S. Oyster Industry: An Economic Profile for Policy and Regulatory Analysts, PB-83-166215.

The U.S. Shrimp Industry: An Economic Profile for Policy and Regulatory Analysts, PB-83-166233 (includes canned shrimp, breaded shrimp, and headless/peeled shrimp).

The New England Groundfish Industry: An Economic Profile for Policy and Regulatory Analysts, PB-83-166231.

Analysis of Seafood Consumption in the U.S. 1970, 1979, 1978, and 1981, PB-86-135043.

The U.S. Seafood Processing Industry: An Economic Profile for Policy and Regulatory Analysis, PB-83-199265.

BASIC ECONOMIC INDICATORS

American and Spiny Lobster, 1947-73, COM-47-11587
Atlantic and Pacific Groundfish, 1932-72, COM-74-11638.
Blue Crab, 1947-72, COM-74-11585.
Clams, 1947-74, COM-75-11089.
Halibut, 1929-72, COM-74-11583.
King and Dungeness Crabs, 1947-72, COM-74-11586.
Menhaden, 1946-72, COM-74-11581.
Oyster, 1947-72, COM-75-10384.
Salmon, 1947-72, COM-74-11710.
Scallops, 1930-72, COM-74-11582.
Shrimp, 1947-72, COM-74-11709.
Tuna, 1947-72, COM-74-11584.

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Sea Grant Advisory Service
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Donald E. Kramer, Leader
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Anchorage, AK 99508
(907) 274-9691

Ronald Skoog, Coordinator
Marine Advisory Program
Cooperative Extension Service
University of California
Davis, CA 95616
(916) 752-6191

James Fawcett, Director, MAS
Univ. of Southern California
Inst. for Marine and Coastal
Studies
Los Angeles, CA 90089
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The National Marine Fisheries Service (NMFS) conducts activities designed to improve the competiveness of the U.S. fishing industry in domestic and world markets and to enhance the safety and quality of U.S. seafood products. Programs include: (1) identification of U.S. industry trade issues and problems and advising U.S. trade agencies on fishery trade matters; (2) financial assistance in the form of loan guarantees, insurance programs, a capital construction fund, and research and development grants; (3) administration of fishery marketing councils; (4) administration of fishery products inspection and grading and product standard programs; (5) research and development on product safety, quality and use; and (6) advice to the U.S. Department of Agriculture on the use of its Surplus Commodity Program and export financing programs for fishery products.

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ANADROMOUS SPECIES. These are species of fish that mature in the ocean, and then ascend streams to spawn in freshwater. In the Magnuson Act, these species include, but are not limited to, Atlantic and Pacific salmons, steelhead trout, and striped bass. See 42 FR 60682, Nov. 28, 1977.

ANALOG PRODUCTS. These include imitation and simulated crab, lobster, shrimp, scallops, and other fish and shellfish products fabricated from processed fish meat (such as surimi).

BOAT, OTHER. Commercial fishing craft not powered by a motor, e.g., rowboat or sailboat, having a capacity of less than 5 net tons. See motorboat.

BREADED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a non-leavened mixture containing cereal products, flavorings, and other ingredients. Breaded products are sold raw or partially cooked.

BATTER-COATED FISH PRODUCTS. Sticks and portions or other forms of fish or shellfish coated with a batter containing a leavening agent and mixture of cereal products, flavoring, and other ingredients, and partially cooked in hot oil a short time to expand and set the batter.

BREADED SHRIMP. Peeled shrimp coated with breading. The product may be identified as fantail (butterfly) and round, with or without tail fins and last shell segment; also known as portions, sticks, steaks, etc., when prepared from a composite unit of two or more shrimp pieces whole shrimp or a combination of both without fins or shells.

BUTTERFLY FILLET. Two skin-on fillets of a fish joined together by the belly skin. See fillets.

CANNED FISHERY PRODUCTS. Fish, shellfish, or other aquatic animals packed in cans, or other containers, which are hermetically sealed and heat-sterilized. Canned fishery products may include milk, vegetables, or other products. Most, but not all, canned fishery products can be stored at room temperature for an indefinite time without spoiling.

COMMERCIAL FISHERMAN. An individual who derives income from catching and selling living resources taken from inland or marine waters.

CONSUMPTION OF EDIBLE FISHERY PRODUCTS. Estimated amount of commercially landed fish, shellfish, and other aquatic animals consumed by the civilian population of the United States. Estimates are on an edible-weight basis and have been adjusted for beginning and ending inventories of edible fishery products. Consumption includes U.S. production of fishery products from both domestically caught and imported fish, shellfish, other edible aquatic plants, animals, and imported products; and excludes exports and purchases by the U.S. Armed Forces.

CONTINENTAL SHELF FISHERY RESOURCES. These are living organisms of any sedentary species that at the harvestable stage are either (a) immobile on or under the seabed (b) unable to move except in constant physical contact with the seabed or subsoil of the continental shelf. The Magnuson Act now lists them as certain abalones, surf clam and ocean quahog, queen conch, Atlantic deep-sea red crab, dungeness crab, stone crab, king crabs, snow (tanner) crabs, American lobster, certain corals, and sponges.

CURED FISHERY PRODUCTS. Products preserved by drying, pickling, salting, or smoking; not including canned, frozen, irradiated, or pasteurized products. Dried products are cured by sun or air-drying; pickled or salted products are those products preserved by applying salt, or by pickling (immersing in brine or in a vinegar or other preservative solution); smoked products are cured with smoke or a combination of smoking and drying or salting.

EDIBLE WEIGHT. The edible weight of individual products as consumed.

EUROPEAN ECONOMIC COMMUNITY (EEC). Belgium and Luxembourg, Denmark, Federal Republic of Germany, Greece, France, Ireland, Italy, Netherlands, Portugal, Spain, and United Kingdom.

EXPORT VALUE. The value reported is generally equivalent to f.a.s. (free alongside ship) value at the U.S. port of export, based on the transaction price, including inland freight, insurance, and other charges incurred in placing the merchandise alongside the carrier at the U.S. port of exportation. The value excludes the cost of loading, freight, insurance and other charges or transportation cost beyond the port of exportation.

EXVESSEL PRICE. Price received by the harvester for fish, shellfish, and other aquatic plants and animals.

"FISH AND CHIPS". This United States fisheries policy links foreign fishing privileges in U.S. EEZ to foreign country contributions to the development of the U.S. fishing industry. These include reductions of foreign tariff and non-tariff barriers that restrict importation of fishery products, and other cooperation in advancing opportunities for fishery trade. This policy was incorporated into the foreign nation species allocation process as a matter of law by the 1980 amendments to the Magnuson Act.

FISH BLOCKS. Regular fish blocks are frozen blocks or slabs of fillets or pieces of fillets cut or sliced from fish. Minced fish blocks are frozen blocks or

slabs of minced flesh produced by a meat and bone separating machine.

FISH FILLETS. The sides of fish that are either skinned or have the skin on, cut lengthwise from the backbone. Most types of fillets are boneless or virtually boneless; some may be labeled as "boneless fillets."

FISH MEAL. A high-protein animal feed supplement made by cooking, pressing, drying, and grinding fish or shellfish.

FISH OIL. An oil extracted from body (body oil) or liver (liver oil) of fish and marine mammals; mostly a byproduct of fish meal production.

FISH PORTION. A piece of fish flesh that is generally of uniform size with thickness of 3/8 of an inch or more and differs from a fish stick in being wider or a different shape. A fish portion is generally cut from a fish block.

FISH SOLUBLES. A water-soluble protein byproduct of fish meal production. Fish solubles are generally condensed to 50 percent solids and marketed as "condensed fish solubles."

FISH STEAK. A cross-section slice cut from a large dressed fish. A steak is usually about 3/4 of an inch thick.

FISH STICK. An elongated piece of breaded fish flesh weighing not less than 3/4 of an ounce and not more than 1-1/2 ounces with the largest dimension at least three times that of the next larger dimension. A fish stick is generally cut from a fish block.

FISHING CRAFT, COMMERCIAL. Boats and vessels engaged in capturing fish, shellfish, and other aquatic plants and animals for sale.

FISHERY MANAGEMENT PLAN (FMP). A plan developed by a Regional Fishery Management Council, or the Secretary of Commerce under certain circumstances, to manage a fishery resource in the U.S. EEZ pursuant to the MFCMA (Magnuson Act).

FULL-TIME COMMERCIAL FISHERMAN. An individual who receives more than 50 percent of their annual income from commercial fishing activities, including port activity, such as vessel repair and re-rigging.

GROSS REGISTERED TONNAGE (GRT). The gross registered tonnage of a vessel is the internal cubic capacity of all space in and on the vessel that is permanently enclosed, with the exception of certain permissible exemptions. GRT is expressed in tons of 100 cubic feet.

GROUNDFISH. Broadly, fish that are caught on or near the sea floor. The term includes a wide variety of bottomfishes, rockfishes, and flatfishes. However, NMFS sometimes uses the term in a narrower sense. In import statistics shown in "Fisheries of the United States," the term applies to the following species: cod, cusk, haddock, hake, Atlantic pollock, and Atlantic Ocean perch.

IMPORT VALUE. Value of imports as appraised by the U.S. customs Service according to the Tariff Act of 1930, as amended. It may be based on foreign market value, constructed value, American selling price, etc. It generally represents a value in a foreign country, and therefore excludes U.S. import duties, freight, insurance, and other charges incurred in bringing the merchandise to the United States.

IMPORT WEIGHT. The weights of individual products as exported, i.e., fillets, steaks, whole, headed, etc.

INDUSTRIAL FISHERY PRODUCTS. Items processed from fish, shellfish, or other aquatic plants and animals that are not consumed directly by humans. These items contain products from seaweeds, fish meal, fish oils, fish solubles, pearl essence, shark and other aquatic animal skins, and shells.

INTERNATIONAL CONVENTION FOR THE NORTHWEST ATLANTIC FISHERIES (ICNAF). This convention, which entered into force on July 3, 1950, was for the investigation, protection, and conservation of the fishery resources of the Northwest Atlantic Ocean. In 1975, there were 18 member nations. The United States withdrew from ICNAF on December 31, 1976, because continued adherence to the convention was deemed incompatible with the extension of U.S. fishery management jurisdiction to 200 miles under the Magnuson Fishery Conservation and Management Act of 1976 (MFCMA). See Northwest Atlantic Fisheries Organization (NAFO).

JOINT VENTURE. An operation authorized under the MFCMA (Magnuson Act) in which a permitted foreign vessel receives fish in the U.S. EEZ from a U.S. vessel. The fish received from the U.S. vessel are part of the U.S. harvest.

LANDINGS, COMMERCIAL. Quantities of fish, shellfish, and other aquatic plants and animals brought ashore and sold. Landings of fish may be in terms of round (live) weight or dressed weight. Landings of crustaceans are generally on a live-weight basis except for shrimp which may be on a heads-on or heads-off basis. Mollusks are generally landed with the shell on, but for some species only the meats are landed, such as sea scallops. Data for all mollusks are published on a meat-weight basis.

MAGNUSON FISHERY CONSERVATION AND MANAGEMENT ACT, Public Law 94-265, as amended. The Magnuson Act provides a national program for

the conservation and management of fisheries to allow for an optimum yield (OY) on a continuing basis and to realize the full potential of the Nation's fishery resources. It established the U.S. Exclusive Economics Zone (EEZ) (formerly the FCZ - fishery conservation zone) and a means to control foreign and certain domestic fisheries through PMPs and FMPs. Within the U.S. EEZ, the United States has exclusive management authority over fish (meaning finfish, mollusks, crustaceans, and all other forms of marine animal and plant life other than marine mammals, birds, and highly migratory species of tuna). The Magnuson Act provides further exclusive management authority beyond the U.S. EEZ for all continental shelf fishery resources and all anadromous species throughout the migratory range of each such species, except during the time they are found within any foreign nation's territorial sea or fishery conservation zone (or the equivalent), to the extent that such a sea or zone is recognized by the United States.

MARINE RECREATIONAL CATCH. Quantities of finfish, shellfish and other living aquatic organisms caught, but not necessarily brought ashore, by marine recreational fisherman.

MARINE RECREATIONAL FISHING. Fishing for pleasure, amusement, relaxation, or home consumption. If part or all of the catch is sold, the monetary returns constitute an insignificant part of the person's income.

MARINE RECREATIONAL FISHERMEN. Those people who fish in marine waters primarily for recreational purposes. Their catch is primarily for home consumption, although occasionally a part or all of their catch may be sold and enter commercial channels.

MAXIMUM SUSTAINABLE YIELD (MSY). MSY from a fishery is the largest annual catch or yield in terms of weight of fish caught by both commercial and recreational fishermen that can be taken continuously from a stock under existing environmental conditions. A determination of MSY, which should be an estimate based upon the best scientific information available, is a biological measure necessary in the development of optimum yield.

METRIC TONS. A measure of weight equal to 1,000 kilograms, 0.984 long tons, 1.1023 short tons, or 2,204.6 pounds.

NORTHWEST ATLANTIC FISHERIES ORGANIZATION (NAFO). This convention, which entered into force January 1, 1979, replaces ICNAF. NAFO provides a forum for continued multilateral scientific research and investigation of fishery resources that occur beyond the limits of coastal nations fishery jurisdiction in the northwest Atlantic, and will ensure consistency between NAFO management measures in this area and those adopted by the coastal nations within the limits of their fishery jurisdiction.

MOTORBOAT. A motor-driven commercial fishing craft having a capacity of less than 5 net tons, or not officially documented by the Coast Guard. See "boat, other."

OPTIMUM YIELD (OY). In the MFCMA (Magnuson Act), OY with respect to the yield from a fishery, is the amount of fish that (1) will provide the greatest overall benefit to the United States, with particular reference to food production and recreational opportunities; and (2) is prescribed as such on the basis of maximum sustainable yield from such fishery, as modified by any relevant ecological, economic, or social factors.

PACKAGED FISH. A term used in NMFS publications prior to 1972 to designate fresh or frozen raw fish fillets and steaks.

PART-TIME COMMERCIAL FISHERMAN. An individual who receives less than 50 percent of their annual income from commercial fishing activities.

PER CAPITA CONSUMPTION. Consumption of edible fishery products in the United States divided by the total civilian population. In calculating annual per capita consumption, estimates of the civilian resident population of the United States on July 1 of each year are used. These estimates are taken from current population reports, series P-25, published by the U.S. Bureau of the Census.

PER CAPITA USE. The use of all fishery products, both edible and nonedible, in the United States divided by the total population of the United States.

PRELIMINARY FISHERY MANAGEMENT PLAN (PMP). The Secretary of Commerce prepares a PMP whenever a foreign nation with which the United States has made a Governing International Fishery Agreement (GIFA) submits an application to fish in a fishery not managed by an FMP. A PMP is replaced by an FMP as soon as the latter is implemented. A PMP applies only to foreign fishing.

RETAIL PRICE. The price of fish and shellfish sold to the final consumer by food stores and other retail outlets.

ROUND (LIVE) WEIGHT. The weight of fish, shellfish, or other aquatic plants and animals as taken from the water; the complete or full weight as caught. The tables on world catch found in this publication include, in the case of mollusks, the weight of both the shells and the meats, whereas the tables on U.S. landings include only the weight of the meats.

SURIMI. Minced fish meat (usually Alaska pollock) which has been washed to remove fat and undesirable matters (such as blood, pigments, and

odorous substances), and mixed with cryoprotectants, such as sugar and/or sorbitol, for a good frozen shelf life.

TOTAL ALLOWABLE LEVEL OF FOREIGN FISHING (TALFF). The TALFF, if any, with respect to any fishery subject to the exclusive fishery management authority of the United States, is that portion of the optimum yield of such fishery which will not be harvested by vessels of the United States, as determined by provisions of the MFCMA.

U.S. EXCLUSIVE ECONOMIC ZONE (EEZ). The MFCMA (Magnuson Act) defines this zone as contiguous to the territorial sea of the United States and extending seaward 200 nautical miles measured from the baseline from which the territorial sea is measured. This was formerly referred to as the FCZ (Fishery Conservation Zone).

U.S.-FLAG VESSEL LANDINGS. Includes landings by all U.S. fishing vessels regardless of where landed as opposed to landings at ports in the 50 United States. These include landings at foreign ports, U.S. territories, and foreign vessels in the U.S. FCZ under joint venture agreements. U.S. law prohibits vessels constructed or registered in foreign countries to land fish catches at U.S. ports.

U.S. TERRITORIAL SEA. A zone extending 3 nautical miles from shore for all states except Texas and the Gulf Coast of Florida where the seaward boundary is 3 marine leagues (9 nautical miles).

USE OF FISHERY PRODUCTS. Estimated disappearance of the total supply of fishery products both edible and nonedible on a round-weight basis without considering beginning or ending stocks, exports, military purchases, or shipments to U.S. territories.

VESSEL. A commercial fishing craft having a capacity of 5 net tons or more. These craft are either enrolled or documented by the U.S. Coast Guard and have an official number assigned by that agency.

WHOLESALE FISH AND SHELLFISH PRICES. Those prices received at principal fishery markets by primary wholesalers (processors, importers, and brokers) for customary quantities, free on board (f.o.b.) warehouse.

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Federal Inspection Marks For Fishery Products

FISHERY PRODUCTS ARE VOLUNTARILY INSPECTED. Beef and poultry, as well as many other perishable food items, are federally inspected at various stages of processing to ensure buyers that the product is safe, wholesome, and acceptable. Fishery products have no similar mandatory federal inspection program; however, the U.S. Department of Commerce (USDC) provides a voluntary inspection program for fishery products. Seafood processor, packers, brokers, and users who are interested in having USDC inspect their products may subscribe voluntarily to the program. Users of the service pay for USDC inspection which evaluates their raw materials, ensures the hygienic preparation of products, and certifies the final quality and condition of the product. The USDC inspector functions as an objective observer in evaluating processing techniques and product quality and condition. Products packed in plants under USDC inspection can carry marks for easy consumer identification.

FEDERAL INSPECTION MARKS. Federal inspection marks are official marks approved by the Secretary of Commerce and authorized for use on brand labels of fishery products. When displayed on product labels, these marks signify that inspectors licensed by the USDC inspected, graded, and certified the products as having met all the requirements of inspection regulations, and have been produced in accordance with official U.S. grade standards or approved specifications.

WHAT DO THE INSPECTION MARKS MEAN? The distinctive inspection marks are symbols that signify two distinct but related functions in guiding the consumer to safe, wholesome products produced in a sanitary environment and packed in accordance with uniform quality standards under the supervision of the USDC's voluntary inspection service. The functions symbolized by each mark follow:

"U.S. GRADE" MARK.
The "U.S. Grade" mark signifies that:

1. The product is clean, safe, and wholesome.

2. The product is of a specified quality, identified by the appropriate U.S. Grade designation, as determined by a federally-licensed inspector in accordance with established requirements in U.S. Grade Standards.

3. The product was produced in an acceptable establishment with proper equipment and in an appropriate processing environment as required by food control authorities.

4. The product was processed under supervision by federally-licensed food inspectors and packed in accordance with specific Good Manufacturing Practice Requirements.

5. The product is truthfully and accurately labeled as to common or usual name, optional ingredients, and quantity.

"PACKED UNDER FEDERAL INSPECTION" MARK. "Packed Under Federal Inspection" may be displayed as an official mark or as an official statement on the product label. This mark or statement signifies that the properly labeled product is clean, safe, and wholesome and has been produced in an acceptable establishment with appropriate equipment under the supervision of federally-licensed inspectors. The product has not been graded as to a specific quality level; rather, it is an acceptable commercial quality as determined by Federal inspectors in accordance with approved standards or specifications.

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